

University of Illinois Extension 4-H
2020 Lake County Fair Book
100 South Highway 45
Grayslake, IL 60030
(847) 223-8627



Please read the rules and regulations that apply to your project exhibits.

If your exhibits follow the rules, they are less likely to be disqualified. Please review the general exhibiting Lake County Fair Rules and the specific project rules carefully.
Also, review the Calendar for judging dates and times.

DISCLAIMER for 2020. "The Department of Agriculture shall use its best efforts to secure sufficient appropriations to fund premiums. In any year for which the General Assembly of the State of Illinois fails to make an appropriation sufficient to pay such premiums, premium amounts may not be accurately reflected in the Junior Department Premium Book."

- 4-H Website: <https://extension.illinois.edu/lm> (scroll down to 4-H Youth Development, to your right click on Lake County and then click on "Fairs and Shows" tab for this fair book.)
- Lake County Fair Association website for more details: www.lcfair.com
- STATE Fair Judging for Lake County's exhibits will be Sunday, August 16 , 2020





Dear 4-H Members, Leaders, and Parents:

The 4-H Fair Book is provided to assist you in preparing for this year's Lake County 4-H Fair. It identifies the 4-H projects that may be exhibited (County and Statewide), their various classes, and the rules and regulations governing their exhibition. Please read it thoroughly to prevent any misunderstanding or potential disappointments. The General Fair Rules and Regulations at the beginning of the book and the specific regulations and/or notes for each project are very important.

Countless hours and many people have contributed to the creation of this book. If you should find any discrepancies, please notify the Extension Office and we will make a notation for next year's Fair book.

Project add/drop changes are due on or by Tuesday, March 31, 2020 at midnight. This will need to be done online.

We no longer request Fair Registration Forms; all registration will be online and available to access on **Friday, May 1, 2020**. It is your responsibility to register online. Please do not register for more projects than you can complete. The Extension Office recruits judges based on project entries. **(If you register for a project, the expectation is that you will exhibit it.)**

Thank you for your cooperation. We look forward to working with you on another successful Lake County 4-H Fair. If you have questions, contact the Lake County Extension Office at (847) 223-8627.

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Sincerely,

Sabrina Agee

Sabrina Agee

Extension Program Coordinator

Lake County Fairbook Index

One Day Judging for Visual Arts & General Projects will be held on Saturday, July 25, at the Lake County Fairgrounds – 1060 E. Peterson Road Grayslake, IL 60030.

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Working “To make the best better”

4-H is looking for qualified 4-H project superintendents for the 2020 Lake County Fair!

We are constantly striving to make the best better... help us find qualified, dedicated superintendents, to help improve the 4-H fair experience for our youth!

4-H portion of the Lake County Fair is in need of superintendents in the following areas:

- 1. Plants and Soils – 1 needed**
- 2. Community Development (Citizenship, Leadership, etc.)- 1 needed**
- 3. Personal Development (Health, Interior Design, etc.)- 1 needed**
- 4. Photography/Theater/Film- 1 needed**
- 5. Vet & Animal Science Display- 1 needed**
- 6. Mechanics and Technology- 1 needed**
- 7. Natural Resources- 1 needed**
- 8. Acrylics; Cartoons Chalk/Carbon/Pigment- 1 needed**
- 9. Oils & Watercolors; P/I Pencil marker; Other Chalk/Carbon/Pigment- 1 needed**
- 10. Other Visual Arts (Clay, Paper, Metal, etc.) – 2 needed**

4-H is looking for volunteers to join the Fair committee! For more information, please contact the Extension Office at (847)223-8627.

SCHEDULE OF 4-H EVENTS

Disclaimer: (Dates, times and locations are all subject to change....Please watch for any updates via email, website and Facebook.)

Pre-Fair Events

MAY:

Saturday, May 2, Small-Pets including Rabbit Show Judging

Check-In : 2:30p.m

Judging: 3:00 p.m.

JUNE:

SATURDAY, JUNE 6 - ROCKENTRY JUDGING – (ONLY ROCKETS) CRAFTSMANSHIP –

8:00 a.m. Check In

Extension Office Auditorium

8:30 a.m. Judging

SATURDAY, JUNE 6 – ROCKET LAUNCH

Following Craftsmanship Judging

Lake County Fairgrounds

Rocket Launch - IF NEEDED: Rain Date- Reschedule {Saturday, TBD Check in 8:00a.m. Launch (Only)

Lake County Fairgrounds}

MONDAY, JUNE 8- ONLINE - FAIR REGISTRATION/ ENROLLMENT FORMS DEADLINE - 12:00 MIDNIGHT THE ONLINE SYSTEM WILL CLOSE.

MONDAY, JUNE 22 - CLOTHING & TEXTILES and 'FASHION REVUE' JUDGING

5:30 p.m. Check-In

Extension Office Auditorium

6:00 p.m. Judging

JULY:

FRIDAY, JULY 24– 4-H FAIR BUILDING SET-UP 4:00 – 6:00 p.m. – at Fairgrounds

SATURDAY, JULY 25- VISUAL ARTS & GENERAL PROJECTS JUDGING

8:30 a.m. Check-In

Lake County Fairgrounds

9:00 a.m. Judging

SUNDAY, JULY 26- POULTRY JUDGING

12:30 p.m. Check- In

Lake County Fairgrounds / Barn Area

1:30 p.m. Judging

4-H LAKE COUNTY FAIR EVENTS

Wednesday, July 29 – August 2, 2020

Disclaimer: Times are subject to change, if this may be the case all enrolled families will be notified immediately.

WEDNESDAY, JULY 29

9:00 a.m. - Swine Judging Lake County Fairgrounds - Swine Barn

9:00 a.m. - Dairy Cattle Judging Lake County Fairgrounds- Dairy Barn

11:00 a.m.- Sheep Judging Lake County Fairgrounds - Sheep Barn

4:00 p.m.- Steer Judging Lake County Fairgrounds - Cattle Barn

WEDNESDAY, JULY 29—EXHIBIT HALL

6:00p.m. – “Cloverbud Show and Tell”

THURSDAY, JULY 30—GOAT BARN

Check in -8:30 p.m.

Judging - 9:00 a.m. - Goat Judging Lake County Fairgrounds Goat Barn

SUNDAY, August 2

Fairgrounds 4-H Building – Pick up projects 6:00 p.m.

NEW 2020—Families are responsible for picking all projects. 4-H will not be transporting any projects back to the Extension Office.

MONDAY, August 3

There will be no mandatory state fair delegate & alternate meeting; you may start purchasing your tickets on Monday, August 3 starting at 8:00a.m – 4:30p.m. at the Extension Office 100 South Highway 45, Grayslake, IL 60030.

(For those taking project to State Fair, & to receive information for State Fair requirements.)

LAKE COUNTY 4-H FAIR RULES & REGULATIONS

One Day Judging for Visual Arts & General Projects will be held on Saturday, July 25, 2020 at the Lake County Fairgrounds – 1060 E. Peterson Road Grayslake, IL 60030

Lake County Extension – 4-H Staff

[James Reaves](#) - County Director

[Dr. Michelle Cox](#) - Extension Educator, 4-H Youth Development

[Sandra Prez](#) - Extension Educator, 4-H Youth Development—Metro

[Sabrina Agee](#) - Program Coordinator, 4-H and Youth Development

[Dianne Glozier](#) - Office Support Assistant

NOTE: *In addition to the general 4-H Rules and Regulations listed here, rules applying to specific divisions/project areas also appear in the divisional listings.*

4-H SHOW RULES AND REGULATIONS

1. Any person, regardless of race, color, religion, gender, national origin, ancestry, marital status, familial status, sexual orientation, or disability may participate in 4-H programs. Youth who are 8 years of age and have not reached their 19th birthday on or before September 1 of the current 4-H year may enroll in a 4-H club. Persons considered to be mentally challenged and older than the eligibility age for 4-H club membership may participate fully in 4-H.
2. **4-H families are strongly encouraged to review this show book in its entirety. If you have any questions or doubts, PLEASE do not hesitate to reach out for assistance.**
3. Extension units may allow 4-H enrollment by boys and girls who are 5, 6, or 7 years of age on or before Sept. 1 of the 4-H year. This is a unit decision. If 4-H enrollment is offered to 5-7 year olds, they must be enrolled as *4-H CLOVER-BUD* members.
4. **Advance online entries are required for ALL 4-H exhibits; deadline will be Monday, June 8, 2020 at midnight. The enrollment deadline must be met. There will be no exceptions.**
5. **All 4-H projects must be products of the current 4-H year.**
6. New members may join 4-H after the **March 31, 2020** Add/ Drop deadline for project enrollment, but they will **not** be allowed to participate in judging and will not be allowed to display those projects at the fair.
7. 4-Hers may exhibit only in project areas in which they are enrolled, and when they have indicated that on their Fair Enrollment form. Enrollment is a matter of record in the Extension Office. 4-H age is calculated as of September 1 the beginning of the current 4-H year.
8. When a 4-H member receives his/her Fair Enrollment form and discovers he/she is mistakenly enrolled in the wrong project level or project sub-class, he/she must make the correction on the fair enrollment form and **HIGHLIGHT** the change when returning it to the Extension by **Monday, June 8**. Exceptions to this rule are left up to the discretion of the judging superintendent and/or Extension staff.
9. If a member receives his/her exhibit tag and discovers that it is incorrect, he/she must contact the Extension Office immediately to get it corrected. Exceptions to this rule are left up to the discretion of the judging superintendent and/or Extension staff.
10. 4-H Cloverbud members (age 5-7) 4-H Cloverbuds may participate at the Lake County Fair as non-competitive exhibitors (Cloverbud group displays are encouraged). They will not receive premiums. **Cloverbuds will have an opportunity to participate in a showcase on Wednesday, July 29, 2020 at 6:00p.m. in the 4-H Display area in the Exhibit building**
11. If you need reasonable accommodations to participate in the 4-H Fair, Contact **Sabrina Agee, 4-H Program Coordinator** at University of Illinois Extension, Lake County, 100 S Hwy 45, Grayslake, IL 60030, (847) 223-8627 at least 2 weeks prior to the event.
12. 4-Hers planning to exhibit in livestock divisions in the 4-H show must meet the project enrollment deadline of **March 31, 2020**. Livestock possession dates are determined by state guidelines. Dates are published throughout the year in the 4-H newsletter or contact Extension Office at (847) 223-8627.

NOTE: *The term “livestock”, as used in the 4-H Rules and Regulations, includes all cattle, sheep, swine, goats, llamas, and alpacas.*

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CHECK-IN

1. Exhibit tags will be mailed in advance to the member in early July. It is the member's responsibility to review the tags for accuracy and keep them in a safe place until they are needed for judging.
2. **All non-livestock 4-H exhibits must check-in 30 minutes before the time of judging.** All projects must be displayed at the fair from the time of check-in until the time of release on Sunday of the County Fair in order to be eligible for awards and premiums. ***LATE check-in will result in lowering of ribbon level*** awarded, and the word LATE will be written on the Exhibit Tag in red, to indicate ribbon level will be lowered.
3. All livestock entries must comply with the State of Illinois Exhibition Livestock Health Requirements as listed in the front of this book. Health papers must be presented to the appropriate divisional superintendent **PRIOR** to unloading animals and will be available from that superintendent, upon request, until the last day of the fair.
4. All 4-Hers must submit a copy of their 4-H Quality Assurance and Ethics Clinic Certification card to Extension Office prior to the fair which includes: Poultry, Beef, Dairy, Swine, Sheep, Goats, Llamas and Horses.
5. Divisional superintendents will assign stalls for 4-H livestock entries.
6. 4-Hers or their immediate family members are responsible for caring for the livestock they are exhibiting at the fair, including feeding, watering, & bedding.

EXHIBITING

1. Absentee forms will be available for members who are not able to make it to the judging event on the Lake County Extension Website **web.extension.illinois.edu/lm** 4-Her's are limited to five absentee projects. It is highly recommended that members enrolled in all other project areas be present when judging of those projects takes place.
2. Personally exhibiting one's project supports the goal of "Learning by Doing". Those unable to personally exhibit their livestock must secure approval of the divisional superintendent if their animals are to be exhibited. Registration papers must accompany all entries in purebred livestock classes. Divisional superintendents have the right to check registration papers at any time throughout the fair.
3. Animals that have not been adequately trained to show and therefore pose a potential safety hazard may be removed from the show at the superintendent's discretion with no rights to premiums and awards.
4. Grand, Reserve and Best of Show ribbons (called competitive ribbons) will be awarded regardless of the age of the exhibitor at the discretion of the judge.
5. Competitive ribbons and state fair delegates are at the discretion of the judges. Extension Staff has the right to remove a project and/or change a ribbon due to project not meeting judging criteria.
6. Cloverbud participation ribbons may be awarded to each member of the group.
7. **4-H judges have been carefully selected. All persons entering and exhibiting in the 4-H Show agree to abide by the decisions of the judges.**
8. **Protest upon any grounds must be made in writing and given to the appropriate superintendent no later than 6:00p.m. on the day of the show in question. The superintendent will present such protest to the Lake County Extension Staff and a youth committee for consideration. The joint decision of the superintendent and committee will be final.**

PREMIUM DISTRIBUTION

1. 4-H premiums will be awarded by the X system to 4-H youth age 8-19 years of age. Under this system, X will be worth a specific dollar amount based upon the amount of money appropriated for 4-H premiums for the year, the number of entries and the distribution of Blue, Red, and White awards. The X value will then be multiplied by a factor of 3 for Blue awards, a factor of 2 for Red awards, and a factor of 1 for White awards.
2. Lake County ('County Only') projects are not premium eligible.
3. 4-H premiums will be distributed by the Lake County Extension and will be mailed to the members, and must be cashed upon receipt (within 60 days).
4. Cloverbud members (ages 5-7) are not premium eligible. They will receive a participation ribbon.
5. ***DISCLAIMER for 2020...*** "The Department of Agriculture shall use its best efforts to secure sufficient appropriations to fund premiums. In any year for which the General Assembly of the State of Illinois fails to make an appropriation sufficient to pay such premiums, premium amounts may not be accurately reflected in the Junior Department Premium Book.

4-H GENERAL PROJECTS

4-H GENERAL PROJECT REGULATIONS

1. **NO EXCEPTION: 4-H WILL NOT ALLOW ANY COPYRIGHT PROJECTS (IN ANY AREA. YOUR PROJECT WILL BE DISQUALIFIED, NOT JUDGED & NOT DISPLAYED.) IF YOU ARE UNCERTAIN ABOUT YOUR PROJECT, PLEASE CALL THE EXTENSION OFFICE IMMEDIATELY TO AVOID ANY DISAPPOINTMENTS.**
2. All entries must be prepared for exhibit according to the requirements given for each class. In addition, the Lake County regulations listed below must be met.
3. **EXHIBIT TAGS** - Use string to attach the Exhibit Tag securely to the project. The string should be attached to the back of the project and should be long enough to allow the Exhibit Tag and Index Card to be draped in front of the project when it is displayed.
4. **RECIPE CARD** – check individual class rules for recipe card regulations. Attach recipe card to Exhibit Tag and index card.
5. **PHOTO** of all food items **MUST also be attached** to the self-sealing plastic bag. The photo will be used to serve as the display of the project during the fair if the food item must be discarded due to spoiling, or should something happen to the food item on the way to judging.
6. Plates used to display food items must be sturdy. Use a Styrofoam, plastic, or multiple thin paper plates.
7. All food entries and exhibit items must be prepared and exhibited by the 4-H member in a manner consistent with the specific directions outlined for each class. **Instructions as to size, quantity, and manner of display should be followed exactly. Entries not complying will be dropped one rating.**
8. Displays and/or poster boards must fit into a space not larger than 24” wide x 15” deep and if boards are needed, a tri-fold poster board is recommended. Standard science display boards fit into this size limitation – and display boards should have the ability to ‘stand’ on their own (which means a stable back support securely attached without additional support necessary). Member’s Name, 4-H Club Name, Project & Class/Category, and date should display visibly on poster board.
9. Menus, recipes, posters, reports, and displays will be evaluated on accuracy, completeness of information and on neatness.
10. For any class that includes an Educational Display opportunity, the display must relate to the project area in which the member is enrolled. Perishable foods MAY NOT be included in the display. 4-Hers may use food models (commercially purchased or made by the individual), pictures from magazines, etc. Non-perishable items such as sealed canned products may be used. For Education Displays, **no commercial names should be visible on products used.**
11. Exhibits illustrating inappropriate subject matter and/or graphics are not acceptable. The Superintendents reserve the right to not display exhibits deemed inappropriate for youth audiences. Items deemed potentially dangerous to fair-goers may be removed from the exhibit.

VISUAL ARTS

Superintendent – TBA

VISUAL ARTS PRESENTATION REGULATIONS

(1 State Fair entry in each class of the following classes: Paper, Fiber, Clay, Wood, Glass/Plastic, Metal, Nature, Computer-Generated Art, Three-Dimensional Design/Mixed Media, Heritage Arts, Scrapbooking, Cake Decorating, and Clover Challenge; 2 entries in Chalk/Carbon/Pigment, 1 entry in Ready 4 life challenge, Food and fiber non- original ages 8-10 only.

1. **NO EXCEPTION: 4-H WILL NOT ALLOW ANY COPYRIGHT PROJECTS (IN ANY AREA. YOUR PROJECT WILL BE DISQUALIFIED, NOT JUDGED AND NOT DISPLAYED.) IF YOU ARE UNCERTAIN ABOUT YOUR PROJECT, PLEASE CALL THE EXTENSION OFFICE IMMEDIATELY TO AVOID ANY DISAPPOINTMENTS.**
2. Chalk/Carbon/Pigment pieces will be referred to as “CCP”. **According to the State Fair guidelines CCP includes acrylics, oils and watercolors, cartoons, stenciling, stamping and printing, pastels, chalk, charcoal, pen and ink, pencil, markers, calligraphy, painted plaster. Lake County breaks this category down in sub classes, due to the vast amount of entries.**
3. Exhibitors are encouraged **to date the project when it is made.** All visual arts exhibits are evaluated using a visual arts rubric which takes into account correct use of design elements, craftsmanship, and creativity.
4. Articles exhibited must be an original design created by the exhibitor (except in heritage arts which may follow a pattern AND Fiber-Non Original Ages 8-10 ONLY). Copyrighted or trademarked designs are not acceptable; this includes Team or School logos. Kits and preformed molds are not considered original and are not acceptable in any Visual Arts Class. Combining parts of different patterns (pictures, photographs, images from the internet or a magazine) with the member's own ideas can result in an original design, but simply changing the color, pattern and/or size of a pattern does NOT make the design original. This also applies for ideas found on a site such as Pinterest. If you see something on Pinterest that you like, use the concept and create something different using the concept; however if it MUST NOT look exactly like something the judge can search for and find on Pinterest. The exhibit must combine parts of different patterns and/or ideas with the concepts of the member, however changing the color or changing the size of the item or pattern used does NOT make it original. If you create a replica of what you see somewhere else, it is not your original design. If a photo, sketch, or other idea source was used, submit it with your entry, firmly attached to your exhibit. Be prepared to explain how and where you got the idea for this project.
5. Members wishing to exhibit quilts made from a pattern may enter it in Heritage Arts. Quilts exhibited in the Visual Arts – Heritage Arts area will be evaluated using a visual arts rubric which takes into account correct use of design elements; craftsmanship; and creativity. All work on the quilt MUST be completed by the 4-H member. You cannot exhibit a quilt that was quilted by someone else. Quilts can be hand OR machine quilted as long as ALL work is completed by the exhibitor.
6. Non-Original Visual Arts Projects include projects that are created from kits, purchased stencils or stamps, patterns (with the exception of Heritage Arts projects – see class guidelines). Art created from a photo not taken by the artist is non-original. Any art incorporating work produced by another person is non-original. Please read class rules carefully before entering. If there is any doubt as to the originality of an entry it will be moved to a non-original class.
7. Exhibitors may enter a maximum of 12 Visual Arts projects. No more than 8 projects may be entered in the CCP subclasses, with no more than one entry in each CCP subclass. For example: only one oil painting may be entered.
8. The use of live animals in any Visual Arts exhibit is prohibited.
9. Superintendents have the right to reject any exhibit. The policy of not accepting any exhibit having nudes or semi- nudes will be followed.
10. All entries must be prepared for exhibit according to the requirements given for each class, **including those listed below.**
 - A. **PHOTO** - “For Visual Arts food decorating classes, a photo of the exhibited project is required.”
 - B. **HANGING** - All artwork intended to be hung must be sturdily supported by a wire firmly attached by eye screws to the frame. Tape, string and/or hooks alone are not acceptable. This regulation is to protect the projects from wind blowing through the exhibit area or other unforeseen mishaps.

- C. EASELS** - If the artwork is intended to be displayed on an easel, the easel must be provided, labeled with the exhibitor's name, and the artwork must be firmly attached to the easel, and include a photo of the artwork being displaying in a no-hanging manner.
- D. MATTING/ PROTECTIVE COVERING - CCP ART WORK** – all CCP projects **MUST BE matted and framed under glass, plexiglass, or some other form of protected covering, with the exception of oil and or acrylic paintings done on canvas or wood, painted over the edge.**
- E. EXHIBIT TAGS** - Use string to attach the Exhibit Tag securely to the artwork. The string should be attached to the back of the project and should be long enough to allow the Exhibit Tag and Index Card to be draped in front of the project when it is displayed.
- F. INDEX CARDS** – An index card with project information neatly printed must be stapled or taped to the bottom of the exhibit tag with both printed sides visible. **See example** for index card required information.

**ANY VISUAL ARTS PROJECTS NOT MEETING PRESENTATION REQUIREMENTS ARE
SUBJECT TO REMOVAL OR REDUCTION OF AWARD AT THE DISCRETION OF THE
EXTENTION STAFF.**

VISUAL ARTS INDEX CARD REQUIREMENTS – ALL PROJECTS

- *a) 4-H members name, age and 4-H Club name
- b) List the Visual Art Class & technique, **and** as an **original or non-original**
- c) Number of years in the visual arts project working in this media. Example: 4 yrs in Visual Arts, 2 years in Clay
- *d) A brief summary explaining how and where you got the idea for this project. Include what materials used in the project.

Example:

- a) Sasha Lesille, 12 years old, "Red Cardinal 4-Hers" club
- b) Chalk/ Carbon/ Pigment (Oils and Watercolors) - Original
- c) 4 years in Visual Arts, 1 year (first) in Watercolors
- d) I took a class at a summer camp and learned about watercolors. I like to paint flowers, so I used my favorite colors for the flowers. I used a wide brush and watercolors on heavy paper. I also matted the drawing and used a wood frame.
- e) I learned to use the correct amount of water on my brush.

CONDUCT

1. All Lake County 4-H Members are expected to uphold, to the best of their ability, the name of 4-H and conduct themselves in an appropriate and acceptable manner.
2. All Lake County 4-H members are to uphold the Code of Conduct for 4-H Events and Activities:

CODE OF CONDUCT FOR 4-H EVENTS & ACTIVITIES **UNIVERSITY OF ILLINOIS EXTENSION**

ALL participants, including parents and guardians, in events and/or activities planned, conducted, and supervised by the University of Illinois Extension, are responsible for their conduct to Extension personnel and/or volunteers supervising the events. This responsibility is necessary for the health, safety, and welfare of the participants, and will be rigidly adhered to and uniformly enforced. The following conduct is not allowed while participating in any 4-H event or activity and is subject to disciplinary action:

Category 1

- a. Possession, use, or distribution of alcohol and other drugs (including tobacco products)
- b. Theft or destruction of public or private property
- c. Involvement in sexual misconduct or harassment
- d. Possession or use of dangerous weapons or materials (including fireworks)
- e. Fighting or other acts of violence that endanger the safety of the participant or others

Category 2

- a. Willfully breaking curfew
- b. Unauthorized use of vehicles
- c. Leaving the site of the event
- d. Participation in gambling
- e. Absence from the planned program
- f. Intentionally interfering with or disrupting the event
- g. Use of profane or abusive language
- h. Disregard for public or personal property
- i. Public displays of affection or other inappropriate actions
- j. Failure to comply with direction of Extension personnel, including designated adults acting within their duties and guidelines

The Extension reserves the right to restrict participation in future activities for those individuals who have been removed from an activity for behavior, as outlined in Category 1 or Category 2. In all cases, the participant will be responsible for restitution of any damages incurred by his/her actions.

Category 1

1. When notified of any of the actions listed under Category 1, the adult in charge will ascertain the relevant facts, and, with concurrence from Extension staff, will notify the affected participant of the action and any supporting evidence. The participant will be allowed an opportunity to answer the allegations and, if necessary, law enforcement officials will be notified. While facts are being verified, the participant will be removed from the 4-H activity/event and be under direct supervision of an adult chaperone.
2. The parent or guardian will also be notified of the actions of the participant, and upon finding the allegations to be true, must immediately remove the participant from the activity, at the parent or guardian's expense.
3. Documentation must be completed on an "Incident Report Form".

Category 2

- 1) When notified of any of the actions listed under Category 2, the adult in charge will ascertain the relevant facts, and, with concurrence from Extension staff, will notify the affected participant of the action and any supporting evidence. The participant will be allowed an opportunity to answer the allegations. While the facts are being verified, the participant will be removed from the 4-H activity/event and be under direct supervision of an adult chaperone.
- 2) The parent/guardian of participants who violate curfew, use vehicles without authorization, or leave the site of the event (as outlined in Category 2, letters a, b, and c) will be notified of the actions of the participant and must immediately remove the participant from the activity, at the parent's or guardian's expense. Participants who willfully disobey conduct as described in Category 2, letters d-i, will receive a verbal warning for the first commission and the adult in charge will make a written notation of the warning (initialed by the adult and participant). Upon receiving a second warning, the parent or guardian will be notified of the behavior and must make arrangements for removal of the participant from the activity, at the parent's/guardian's expense.
- 3) 4-H members found to be in violation of the conduct rules will have the opportunity to appeal before the Lake County Extension Youth Council any restrictions or penalties imposed as a result of their alleged actions. Request for such appearance shall be made in writing to the chairman of the council and sent to the Extension office within 10 days.

RELEASE

1. All non-livestock 4-H exhibits will be released the last day of the fair. Time of release will be announced at a later date.
2. Members unable to remove their exhibits are responsible to arrange, in advance, for them to be removed by a 4-H leader, immediate adult family member or another 4-H member.
3. It will be the member's responsibility to pick up their projects or arrange with another club member(s)/ leader.
4. No 4-H livestock will be allowed to leave the fairgrounds early unless accompanied by an approved early release form.
5. 4-Hers are responsible for cleaning their animals' pens and/or stalls upon release.

ADMINISTRATION

1. Extension Office staff has the authority to devise and implement any rules and regulations where changes are necessary to conduct the 4-H Show in a safe, orderly, and expedient manner.
2. Final interpretation of the rules and regulations of the Lake County 4-H Show will be made by the Lake County 4-H staff and Lake County Extension Youth Council.
3. In NO case will Lake County Fair Association, Lake County Extension, or anyone else connected with conducting the 4-H Show be responsible for personal injury, property loss or damage incurred during the 4-H show.

ILLINOIS STATE FAIR INFORMATION



ILLINOIS STATE FAIR INFORMATION

LAKE COUNTY GENERAL PROJECT JUDGING DATE AT THE “2020 ILLINOIS STATE FAIR”

Sunday, August 16 , 2020 IN SPRINGFIELD, IL

STATE FAIR WILL RUN THURSDAY, AUGUST 13—AUGUST 23, 2020

There will be no mandatory state fair delegate & alternate meeting; you may start purchasing your tickets on Monday, August 3, 2020 starting at 8:00a.m – 4:30p.m. at the Extension Office

See below for link to livestock judging dates

At the State Fair, “General Projects” refers to all state-qualifying projects from both the Visual Arts and General Projects divisions of the Lake County Fair.

All State Fair Delegates are responsible for bringing their projects to the State Fair. All projects are conference-judged. (Face-to-face)

Limited equipment will be provided for Public Presentations exhibits. The following items will be available, if requested in advance: LCD projector, podium, projector screen, and extension cord. Requested items should be noted on 4-HDMS electronic entry notes. Exhibitors must furnish any additional equipment they feel is necessary to properly critique their exhibit (i.e. computer). Exhibitors should be aware that electrical outlets and internet accessibility are not always located near judging locations and should take that into consideration when planning exhibits. The REQUEST MUST BE MADE TO THE EXTENSION OFFICE in advance.

Counties should indicate if the presentation will be a TEAM presentation (in approved classes only) by placing a comment as such (noting who the team members are) in the exhibit description area when entries are made.

Non-livestock projects eligible for State Fair competition are outlined at the end of each Divisional Listing. Those taking exhibits to the State Fair must follow the rules outlined in the State Fair Junior Department book which is available online at: <http://www.agr.state.il.us/isf/premium/>. Click on the ‘Competitions’ TAB. Then click to open the ‘Junior Livestock Premium Book’ as a .pdf file. The ‘4-H Exhibit Division’ lists the general rules, schedule for exhibits, and also the project areas.

4-H animal exhibitors see specific dates listed in the **2020** State Fair Exhibit Schedule. Visit the website: www2.illinois.gov

For State Fair livestock exhibit requirements, visit Illinois State Fair website: <https://www2.illinois.gov/statefair/competitions/premium-books>

For 2020 livestock health requirements for Illinois, here are direct links to County, and County & State requirements: <https://www2.illinois.gov/sites/agr/Animals/AnimalHealth/Pages/fair-exhibition-requirements.aspx>

All State Fair livestock and horse entries are due at the Extension office- **there will be no horse show for 2020**. Entry forms, State Fair Books, and deadline information will be available from the Extension Office; or posted on University of Illinois Extension Lake County website on the 4-H Fair page:

State Fair livestock exhibitors must take QUALITY ASSURANCE AND ETHICS on the web to show at State Fair.

Local Extension Offices will receive information on final exhibit locations by mid-summer. Please be aware that last minute changes may occur and that we will accommodate the exhibit and judging process as best we can.

Exhibiting in the 4-H Exhibit Division at the Illinois State Fair is a privilege and an honor. It is the responsibility of the exhibitor to follow the General Rules of this division and the exhibit requirements for the specific class entered.

Local Extension Offices will receive information on final exhibit locations by mid-summer, 2020. Please be aware that last minute changes may occur and that we will accommodate the exhibit and judging process as best we can.

1. All State Fair livestock and horse entries are due at the Extension office. Entry forms, State Fair Books, and deadline information will be available from the Extension Office; or posted on University of Illinois Extension Lake County website on the 4-H Fair page
2. State Fair **livestock** exhibitors must take **QUALITY ASSURANCE AND ETHICS** on the web to show at State Fair.

3. Non-livestock projects eligible for State Fair competition are outlined at the end of each Divisional Listing. Those taking exhibits to the State Fair must follow the rules outlined in the State Fair Jr. Department book. Available online, go to the Illinois State Fair website <http://www.agr.state.il.us/isf/premium/> Click on the 'Competitions' TAB. Then click to open the 'Junior Livestock Premium Book' as a .pdf file. The '4-H Exhibit Division' lists the general rules, schedule for exhibits, and also the project areas.
4. All entries must be products of the current 4-H year (September 1, 2019– August 31, 2020). The same product or speech that is selected at the county level must be the one exhibited at the State Fair. The exceptions include exhibits in the areas of Food and Nutrition (must be the same recipe), Crops, Fruit or Nut Plates, and Vegetable Market Baskets/Plates. Modifications can be made to the original county exhibit to 1) meet State Fair class requirements, or 2) incorporate suggested improvements made by the local judge.
5. Display space is limited. Table displays are limited to 2' wide x 15" deep unless otherwise stated in the class listings for that project. Standard science display boards fit into this size limitation – and display boards should have the ability to 'stand' on their own (which means a stable back support securely attached without additional support necessary). This pertains to exhibits to be placed on a table only; floor exhibits are not limited unless indicated in a specific project area. The maximum poster size is 22" x 30" unless otherwise noted in the class listings for that project. Exhibits that stand over 4' tall will be placed on the floor. Use of page protectors is recommended for binder exhibits. Binder exhibits will NOT be labeled "Do Not Touch."
6. All 4-H members are responsible to take their projects to the State Fair if they are selected as **State Fair Delegate**, since all projects are conference judged at the State Fair this year.
7. **An individual 4-H'er may enter ONLY ONE exhibit class in the 4-H Exhibit Division.** This includes exhibitors in Fashion Revue, Public Presentations, Club/Group exhibits in Public Adventures and Intercultural, and any exhibit classes only offered on one day (i.e. Welding). Exhibitors will need to check in at specific times on their county's assigned date. **Exhibits are required to be judged on the assigned county day for judging.** *(Except in the case of the exhibit classes which are only judged on one day.)*. Exact check-in times will be provided to local Extension offices by mid-July. Presentation and conference judging times will be assigned at check-in. Exhibitors not reporting at their designated time will forfeit their time and may be placed at the end of the day's schedule. General 4-H exhibitors also wishing to show in Jr. Livestock classes should realize that judging conflicts may exist and the member will need to make a decision on their priorities. The General 4-H Show will try to accommodate judging times; however judges will not be asked to stay longer than necessary if an exhibitor is not present during the assigned judging times. If an exhibitor misses the class judging entirely, a "No Show" will be registered for the exhibit and ribbons and premiums will not be awarded. **NOTE: Most judging will take place in the Exposition Building, 4-H Tents in Happy Hollow, or other locations across the fairgrounds; exhibitors should plan to allow extra time to arrive at these locations. Check-in and judging times may vary from locations-to location.**
8. "Team" entries are allowed only in specified action-oriented classes. Size of a "team" is defined in those specified classes – ALL of which must meet the age requirement for 4-H state fair exhibitors. Each member of a team will receive a ribbon and premium check. Both premium-eligible members must be registered for the class via the 4-HDMS process.
9. [Club Exhibits] Clubs may wish to do a display in ONE of two project exhibit areas: Intercultural **or** Public Adventures. The displays must remain in place from 9:00 a.m. - 1:00 p.m. or 1:00 p.m. – 5:00 p.m. on the assigned judging day. **These exhibits will be placed and judged on the Mezzanine Level of the Exposition Building.** The display must be manned by 3 or more club exhibitors of 4-H age (8 and older) at the time of the judge's critique. **These members must not be exhibiting in another individual exhibit class** and at least one of the members must meet the 10-year-old and above age requirement. **Only club members present for judging who participate in the actual critique and the presentation is eligible for ribbons and premium.**
10. All conference-judged exhibits must be identified with an official entry tag. This entry tag is to be completely filled out and securely attached to the exhibit. **Project exhibits must remain on display until 12:00 p.m. if judged in the morning or whenever judging is completed, whichever is later and 3:30 p.m. if judged in the afternoon or whenever judging is completed, whichever is later, in order to receive a premium award.**

11. Exhibits illustrating inappropriate subject matter and/or graphics are not acceptable. The Superintendents reserve the right to not display exhibits deemed inappropriate for youth audiences. Items deemed potentially dangerous to fair-goers may be removed from the exhibit.
12. **Limited equipment will be provided for Public Presentations exhibits.** The following items will be available, **if requested in advance:** LCD projector, podium, projector screen, and extension cord. **Requested items should be noted on 4-HDMS electronic entry notes.** Exhibitors must furnish any additional equipment they feel is necessary to properly critique their exhibit (i.e. computer). Exhibitors should be aware that electrical outlets and internet accessibility are not always located near judging locations and should take that into consideration when planning exhibits. **The REQUEST MUST BE MADE TO THE EXTENSION OFFICE in advance.**
13. Judges are permitted to award Superior ribbons at their discretion to a maximum number of exhibitors per class. Judges take into account the display and information provided during the interview in determining Superior ribbon awards. Exhibitors who do not follow the exhibit class guidelines and requirements are ineligible to receive a Superior ribbon. **The judge's decision that is posted on the official judge's class list is final unless it has been determined that an exhibitor has not followed the guidelines or rules for that exhibit class.**
14. **CLOVER CHALLENGE** exhibit classes are included in many of the General 4-H Sections. These classes are ONLY for 15-18 year olds who are enrolled in Clover Challenge projects in that specific exhibit project area. Clover Challenge projects are to be "above and beyond" what the 4-H project books cover. Exhibit a display illustrating the Clover Challenge area that you explored. This could include anything NOT covered in the project book, including but not limited to career exploration or an in-depth study of a specific topic in that project's subject matter. **The completed Illinois 4-H Clover Challenge Agreement must be presented with the exhibit.** The agreement can be found at: <http://web.extension.illinois.edu/state4h/projects/>

Illinois Department of Agriculture

Bureau of Animal Health

State Fairgrounds – P.O. Box 19281
Springfield, Illinois 62794-9281

EXHIBITION LIVESTOCK REQUIREMENTS

CODE OF ETHICS REGULATIONS

INTERNATIONAL ASSOCIATION OF FAIRS AND EXPOSITION NATIONAL CODE OF SHOW RING ETHICS

All 4-H members are expected to conduct themselves in accordance with the IAFE National Code of Show Ring Ethics.

Exhibitors of animals at livestock events shall at all times deport themselves with honesty and good sportsmanship. Their conduct in this competitive environment shall always reflect the highest standards of honor and dignity to promote the advancement of agricultural education, offered in any event at a livestock show. In addition to the "IAFE" National Code of Show Ring Ethics, fairs and livestock shows may have rules and regulations which they impose on the local, county, state, provincial and national levels.

All youth leaders working with junior exhibitors are under an affirmative responsibility to do more than avoid improper conduct or questionable acts. Their moral values must be so certain and positive that those younger and more pliable will be influenced by their fine example. Owners, exhibitors, fitters, trainers and absolutely responsible persons who violate the code of ethics will forfeit premiums, awards and auction proceeds and shall be prohibited from future exhibition in accordance with the rules adopted by the respective fairs and livestock shows. Exhibitors who violate this code of ethics demean the integrity of all livestock exhibitors and should be prohibited from competition at all livestock shows in the United States and Canada.

PREMISES REGISTRATION NUMBER is MANDATORY FOR LAKE COUNTY FAIR

Premises Registration is **voluntary** to exhibit livestock (beef, dairy, horses, sheep, goats, poultry and rabbits) at the **Illinois State Fair**. BUT, **Premises ID is MANDATORY for Market Swine, even at State Fair.**

Choosing to register your premises puts you on the frontline of controlling and preventing the spread of animal disease. A disease outbreak can't be predicted but it can impact every segment of animal agriculture. Participation ensures that you have the information you need, when you need it most, to protect your animals and your investment. Registering a premise involves obtaining a seven-character alpha-numeric "identifier" for the farm, ranch veterinary clinic or other site where livestock or fowl are handled, housed, managed or processed.

If an exhibitor wants to register their animals an application form can be found on-line at www.agr.state.il.us/premiseid. Exhibitors who register on-line will receive a premises registration number immediately. An application can also be obtained by calling (866)299-9256. If completing application and returning by mail, it may take up to 4 weeks to receive the number.

The following is a list of guidelines for all exhibitors and all livestock in competitive events:

1. All exhibitors must present, upon request of fair and livestock show officials, proof of ownership, length of ownership and age of all animals entered. Misrepresentation of ownership, age, or any facts relating thereto is prohibited.
2. Owners, exhibitors, fitters, trainers, or absolutely responsible persons shall provide animal health certificates from licensed veterinarians upon request by fair or livestock show officials.
3. Junior exhibitors are expected to care for and groom their animals while at the fairs or livestock shows.
4. Animals shall be presented to show events where they will enter the food chain free of volatile drug residues. The act of entering an animal in a livestock show is the giving of consent by the owner, exhibitors, fitters, trainers and/or absolutely responsible person for show management to obtain any specimens of urine, saliva, blood, or other substances from the animal to be used in testing. Animals not entered in events which culminate with the animal entering the food chain, shall not be administered drugs other than in accordance with federal, state, and provincial statutes, regulations and rules. If the laboratory report on the chemical analysis of saliva, urine, blood, or other sample taken from livestock indicates the presence of forbidden drugs or medications, this shall be prima facie evidence such substance has been administered to the animal either internally or externally. It is presumed that the sample of saliva, urine, blood, or other sample tested by the approved laboratory to which it is sent is the one taken from the animal in question, its integrity is preserved and all procedures of said collection, preservation, and transfer

to the laboratory pertains to the sample taken from the animal in question and correctly reflects the condition of the animal at the time the sample was taken, with the burden of the owner, exhibitors, fitters, trainers or absolutely responsible person to prove otherwise at any hearing in regard to the matter conducted by the fair or livestock show premises, all treatment involving the use of drugs and/or medications shall be administered by a licensed veterinarian. (FOR Lake County Fair, **Premise ID is Mandatory**; FOR STATE FAIR -**Premise ID is voluntary, except for Market Swine it's mandatory.**)

5. Any surgical procedures or injections of any foreign substances or drug or the external application of any substance (irritant, counterirritant or similar substance) which could affect the animal's performance or alter its natural contour, conformation, or appearance, except external applications of substances to the hoofs or horns of animals which affect appearance only and except for surgical procedures performed by a duly licensed veterinarian for the sole purpose of protecting the health of the animal, is prohibited.
6. The use of showing and/or handling practices or devices such as striking animals to cause swelling, using electrical contrivance, or other similar practices are not acceptable and are prohibited.
7. Direct criticism or interference with the judge, fair or livestock show management, other exhibitors, breed representatives, or show officials before, during or after the competitive event is prohibited. In the furtherance of their official duty, all judges, fair and livestock show management, or other show officials shall be treated with courtesy, cooperation and respect and no person shall direct abusive or threatening conduct toward them.
8. No owner, exhibitors, fitters, trainers, or absolutely responsible person shall conspire with another person or persons by affirmative action or inaction to violate this code of ethics. Violation of this rule shall subject such individuals to disciplinary action.
9. This application of this code of ethics provides for absolute responsibility for an animal's condition by an owner, exhibitors, fitter, trainer or participant whether or not he or she was actually instrumental in or had knowledge of the treatment of the animal in contravention of this code of ethics.
10. The act of entering an animal is the giving of consent by the owner, exhibitors, fitters, trainers, or absolutely responsible person to have any disciplinary action taken by the fair or livestock show against such individuals published in any publication of the International Association of Fairs and Expositions, including Fairs and Expositions and any special notice to members.
11. The act of entering of an animal in a fair or livestock show is the giving of verification by the owner, exhibitors, fitters, trainers or absolutely responsible person that he or she has read the IAFE National Code of Show Ring Ethics and understands the consequences of and penalties provided for actions prohibited by the code. It is further a consent that any action which contravenes these rules and is also in violation of federal, state, or provincial statutes, regulations, or rules may be released to appropriate law enforcement authorized with jurisdiction over such infractions.

GENERAL REQUIREMENTS

For 2020 livestock health requirements for Illinois, here are direct links to County, and County & State requirements

<https://www2.illinois.gov/sites/agr/Animals/AnimalHealth/Pages/fair-exhibition-requirements.aspx>

1. Health Certificate or Certificate of Veterinary Inspection (CVI): The term "health certificate" or "certificate of veterinary inspection" means a legible record, made on an official form of the state of origin which has been issued by an accredited veterinarian, which shows that the animals listed thereon meet the health requirements of the state of destination.

A Certificate of Veterinary Inspection (CVI) must:

1. Accompany animals and be available on request by Animal Health Officials;
2. Show results of required tests and/or vaccinations;
3. Show name and address of owner or exhibitor;
4. Be dated and signed by an accredited veterinarian;
5. Show only one identification per line; and
6. Show the official identification of each animal.

For out-of-state livestock, a CVI shall be void **30** days after issuance. For Illinois origin livestock, a CVI shall be void **90** days after issuance.

NOTE: No corrections or additions will be allowed on health certificate.

2. All livestock shall be subject to examination upon entry to any Illinois Fair or exhibition. Any animal showing evidence of infectious, contagious or communicable disease shall be immediately withdrawn and held in quarantine at the owner's risk and expense until properly treated and recovered, or until the animal is released to return to the owner's premise. (FOR Lake County Fair, **Premise ID is Mandatory**; FOR STATE FAIR -**Premise ID is voluntary, except for Market Swine it's mandatory.**) Any livestock infected with scabies, mange, active lesions or ringworm, sore mouth or

multiple warts, which are easily visible without close examination, shall not be permitted to exhibit and are subject to quarantine or removal from the fairgrounds.

Sheep and goats with caseous lymphadenitis as evidenced by draining abscesses shall not be exhibited and are subject to immediate quarantine or removal from the fairgrounds.

3. Illinois Department of Agriculture personnel or designee may collect blood, tissue, milk, or urine samples from any animal being exhibited and/or raced at any Illinois Fair to test for the presence of illegal drugs. New examination techniques, such as ultrasound, may also be used at any time while the animals are on the grounds of any Illinois fair or exhibit. The Illinois Department of Agriculture may collect urine, blood, tissue, or other test samples from exhibition animals at the time of slaughter.
4. All exhibitors of animals at any Illinois fair or exhibition shall comply with the provisions of the Illinois Humane Care for Animals Act. If violations are observed, the animal(s) will be excused from exhibition and ordered removed from the grounds with all awards being forfeited. Any practice of deviation from normal, accepted care, including physical, medical or mechanical application, will constitute a violation of show rules and may result in the animal's disqualification and removal from the fairgrounds.
5. Any Illinois cattle, bison, cervidae or goats being exhibited in non-accredited free states must be isolated from the remainder of the herd/flock upon return to Illinois and retested for tuberculosis 60-120 days post-entry.

4-H Livestock



4-H LIVESTOCK GENERAL REGULATIONS

DISCLAIMER for 2020... "The Department of Agriculture shall use its best efforts to secure sufficient appropriations to fund premiums. In any year for which the General Assembly of the State of Illinois fails to make an appropriation sufficient to pay such premiums, premium amounts may not be accurately reflected in the Junior Department Premium Book.

1. All animals **MUST** be the project of the 4-H member and **MUST BE SHOWN** by that member. In the event of a member's illness, other emergency, or having more than one animal per class, the animal may be shown by another Lake County 4-H member, but not by a parent or adult.
2. All registration papers for breeding stocks **MUST** be in the member's name
3. **All** first year 4-H members exhibiting in the 4-H show must have completed the online Quality Assurance and ***viewed the Ethics video*** at the Extension Office.
4. All livestock exhibitors must furnish their own feed, bedding, watering pails, barn and grooming equipment. The animals **MUST** be cared for by the 4-Her (***pens cleaned, water & fed, and awards displays***).
5. Animals must be placed in pens assigned by the superintendent. The pens **CANNOT** be changed, **EXCEPT** by the superintendent.
6. All 4-H members must weigh in their animals on **Tuesday, July 28, 4:00-8:00p.m. at the fair or as determined by the Superintendent.**
7. Registration papers for all livestock must be presented to the superintendent.
8. Each exhibitor is responsible for having his/her animal(s) presented in its natural conformation and structure without alteration or modification, except for the grooming of hair and hooves. The exhibition of cattle displaying false hair will not be allowed. Any product administered internally or used to alter the conformation of an animal for exhibition is prohibited. This includes the use of graphite, powders, hemp or other similar substances externally, and steroids, growth stimulants or artificial filling internally. Any animal found to be in violation will be barred from showing.
9. Animals in all departments are the projects of the 4-H exhibitors. Upon arrival at the fairgrounds through Wednesday after the 4-H shows, animals will be groomed/fitted by the 4-Her and **IMMEDIATE** family members or other Lake County 4-H families.
10. Proof of ownership and project records should be readily available. Site visits can be conducted at random by any Livestock Committee member.
11. If facilities are available where the 4-H member resides, the member's animals must be kept at the residence. If facilities are not available, the animals must be kept within a 10-mile radius from the 4-H member's home, **OR** the member may request a hearing with the livestock committee.
12. All beef project members must submit a completed beef livestock project sheet by ***January of the fair year***. All other livestock breeds (swine, sheep, goat, dairy, and llama) must complete a livestock sheet by ***April of the fair year***.
13. Show ring attire will not promote private businesses. The only lettering/designs allowed will promote 4-H and/or the 4-H club.
14. Appropriate footwear should protect the member's feet—no sandals or open-toed shoes will be allowed.
15. Beef, swine, sheep and market wether goats will not be tagged on weigh in dates, but will be tagged on check in day of fair.
16. Failure to comply with all the rules will result in ineligibility to show in the Lake County 4-H Livestock Show. The alternate option is to provide an exhibit in the Animal Sciences project area in the 4-H building.
17. ***Livestock fiscal records for each livestock project MUST be turned into Extension Office in September on same date that records are required to be turned in for judging. If livestock fiscal records are NOT turned in on due date in September, exhibitor WILL NOT BE ALLOWED TO SELL IN THE LAKE COUNTY FAIR LIVESTOCK AUCTION AS 4-H.***

****State Fair requirements for Livestock will be available in hardcopy form at the 4-H Office.**

4-H LIVESTOCK MARKET ANIMAL REGULATIONS

A public sale of livestock exhibited at the Lake County Fair and Lake County 4-H Club Show will be held on Saturday afternoon.

1. Any exhibitor showing **market animals** is eligible to consign exhibited animals to the market animal sale. **A market animal should weigh at or near ideal market weight at the time of sale or it could be eliminated from auction by committee.**
2. Auction committee will inspect all consigned animals prior to the sale and select those to be entered in the sale. (This rule is to insure that only high quality animals are entered in the sale)
3. The livestock auction is a terminal sale. If the animal is to be shown again, it should **NOT** be entered in the auction.
4. Consignment forms will be available Wednesday, after the Lake County 4-H and Open Shows, from department superintendents. Exhibitors are to complete these forms properly and return them to the superintendent by 6 p.m. Thursday night. Failure to do so will eliminate the animal from the auction.
5. Buyer signs should be posted by 8 p.m. on Saturday.

BEEF CATTLE

Superintendent: Kathy Miller 847.815.8450

ILLINOIS HEALTH REQUIREMENTS

Identification

Individual identification of each animal shall be either a fully healed and legible tattoo, approved official ear tag, registration number (can only be used if the tattoo is recorded on the registration certificate or for breeds where pictures are acceptable), or individual brands, if brand is recorded on the registration certificate.

Illinois Cattle

Brucellosis

Illinois is a Bovine Brucellosis Class-Free State. Brucellosis testing is not required for Illinois cattle.

Tuberculosis

Illinois is an Accredited Tuberculosis- Free State. Tuberculin testing is not required for Illinois cattle.

Please note: Illinois calves under 6 months of age, and Illinois steers are not required to have a Certificate of Veterinary Inspection.

Out-of-State-Cattle

All out-of-state cattle are to be accompanied by an entry permit. Entry permit numbers are available by calling the Illinois Department of Agriculture, Monday through Friday from 8:00 AM to 4:30 PM, at 217/782-4944. Permits may also be obtained online at: <http://www.agr.state.il.us/AnimalHW/animalregistry/login.php>

Brucellosis

1. Female cattle six (6) months of age and older and bulls eighteen (18) months of age and older shall be negative to an official test for brucellosis within thirty (30) days prior to entry, unless exempt by one (1) of the following:
 - A. Originate directly from a certified brucellosis-free herd.
 - B. Official vaccinates of dairy breeds under twenty (20) months of age or official vaccinates of beef breeds under twenty-four (24) months of age.
 - C. Animal originated from a "Class Free" state (if entire state is so classified)
 - D. Steers and spayed heifers are not required to be tested for brucellosis.
2. The negative brucellosis test shall be conducted at a state or federal laboratory within 30 days prior to exhibition.

Tuberculosis

1. Accredited Tuberculosis Free States
 - A. No tuberculin test required. All cattle, including steers, originating from an Accredited Tuberculosis Free State, may enter Illinois for exhibition when accompanied by a CVI issued by an accredited veterinarian within 30 days.
2. Non-Accredited Tuberculosis Free Areas or States (Not TB Free)
 - A. Cattle must originate from a herd where a complete herd test was conducted within the past year.
 - B. The individual animals entering Illinois must be negative to an additional tuberculin test conducted **within 30 days prior to exhibition.**
 - C. Cattle that enter Illinois for exhibition and remain in Illinois (animal does not return to the state of origin within 30 days) must be isolated and retested for TB 60-120 days from the last official TB test date.

4-H BEEF GENERAL REGULATIONS

1. Exhibitors are permitted to enter more than one breed.
2. Entries in the Market Beef class can be either Purebred or Crossbred.
3. Animals entered in the Market Beef class must have been born between January 1 and December 31 of the past year.
4. All steers must be owned by February 1 of the current year.
5. No July entry in Market or Breeding classes will be accepted unless the Preliminary Entry Form verification was recorded in February.
6. Maximum entries per member – are 2 per class (such as only 2 Herfords; one could be a Summer Yearling, and the other is a Two Year Old. Then same member could also have max of 2 Crossbreeds, etc.); **however you are only allotted ONE premium out of this project area.**
7. Beef judging will take place on **Wednesday, July 29, 2020 at 4:00 p.m.**

CLASSES

	Angus	Hereford	Shorthorn	ORB	Crossbreed
Heifer					
Senior Heifer Calf					
Summer Yearling					
Junior Yearling					
Two Year Old					

ORB denotes Other Registered Breeds

OTHER CLASSES

Purebred Market Steers
All Cross Bred Market Steers
Beef Fitting and Showmanship

*Scale weights of total animals entered will determine the dividing weight to designate classes. Divisions will be light, medium and heavy weight, if the demand exists. The Beef Superintendent, 4-H staff, and class entry records will determine all steer classes at fair time.

*All 4-H members exhibiting in the Lake County 4-H Beef Show have an equal opportunity to participate, regardless of previous placements.

Awards

- 1 possible Best of Show- Green/White Rosette
- 1 possible Grand Champion Trophy and Purple Rosette-Market Animal
- 1 possible Reserve Trophy Champion and Pink Rosette-Market Animal
- 1 Grand Champion Trophy female overall
- 1 possible Junior Showmanship Trophy*
- 1 possible Senior Showmanship Trophy*

**Showmanship age categories are at the discretion of the Superintendent based on years of experience*

Beef Animal Science (SF 50135)

Prepare a display focusing on any activity related to the beef project. Demonstrate the skills and knowledge you have gained through the animal project you studied. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Animal Science Beef Ready4Life Challenge (SF 50137) Open to 11- to 18-year-olds enrolled in any Beef project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Beef Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do

Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.

All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

DAIRY CATTLE

Superintendent: Lynn & Tom Doolittle 847-395-5787
ILLINOIS HEALTH REQUIREMENTS

IDENTIFICATION

Individual identification of each animal shall be a fully healed and legible tattoo, official metal wear tag, registration number, or individual brands, if brand is recorded on the registration certificate.

ILLINOIS CATTLE

Brucellosis: Illinois is a Bovine Brucellosis Class-Free State. Brucellosis testing is not required for Illinois cattle. **Tuberculosis:** Illinois is an Accredited Tuberculosis-Free State. Tuberculin testing is not required for Illinois cattle. Any Illinois cattle, bison, cervidae or goats being exhibited in non-accredited free states must be isolated from the remainder of the herd/flock upon return to Illinois and retested for tuberculosis 60-120 days post-entry. **Please note: Illinois steers and calves under 6 months of age are not required to have a certificate of veterinary inspection.**

OUT-OF-STATE CATTLE

Permit:

1. All out-of-state swine are to be accompanied by an entry permit.
2. Permits are available 24 hours a day, 7 days a week by calling 217/782-4944.

Brucellosis

1. Female cattle 6 months of age and older and bulls 18 months of age and older shall be negative to an official test for brucellosis within 30 days prior to entry, unless exempt by 1 of the following:
 - A. Originate directly from a certified brucellosis-free herd.
 - B. Official vaccinates of dairy breed under 20 months of age, or official vaccinates of beef breeds under 24 months of age.
 - C. Animal originated from a "Class Free" state (if entire state is so classified).
 - D. Steers and spayed heifers are not required to be tested for brucellosis.
2. The negative brucellosis test shall be conducted at a state or federal laboratory within 30 days prior to exhibition.

Tuberculosis

1. Accredited Tuberculosis Free States
 - A. No tuberculin test required. All cattle, including steers, originating from an Accredited Tuberculosis Free State, may enter Illinois for exhibition when accompanied by a CVI issued by an accredited veterinarian within 30 days.
2. Non-Accredited Tuberculosis Free Areas or States (Not TB Free)
 - A. Cattle must originate from a herd where a complete herd test was conducted within the past year.
 - B. The individual animals entering Illinois must be negative to additional tuberculin tests conducted within 30 days prior to entry or exhibition.
 - C. Permits are required for cattle entering Illinois from non-TB free states or areas.
 - D. Cattle that enter Illinois for exhibition and remain in Illinois (animal does not return to the state of origin within 30 days) must be isolated and retested for TB 60-120 days from the last official TB test date.

4-H DAIRY CATTLE GENERAL REGULATIONS

1. Exhibitors must verify class entries with Superintendent upon check in.
2. Entries in the cow classes may or may not be in milk. All animals in milk, however, must show in cow classes.
3. Horns are to be removed from all animals born before January 1 of the current year.
4. Animals must be 87% purebred or higher and recorded in respective breed herd book to exhibit in purebred class.
5. **Exhibitors may enter in more than one breed; however you are only allotted ONE premium out of this project area.**
6. An exhibitor may exhibit in registered or grade classes, but not in both.
7. No animals born after May 31 of the current year may be exhibited.
8. Dairy cattle judging will take place on **Wednesday, July 29, 2020 at 9:00 a.m.**
9. All exhibitors will be required to enter the Dairy Fitting and Showmanship class that goes with the junior show portion of the Lake County Fair. Exhibitors must register for showmanship at the fair office under "Junior Show Dairy Cattle."
10. Grade class animals cannot be shown in the Junior Livestock at the Lake County Fair. They can only show in the 4-H Show.

CLASSES

	Holstein	Jersey	Brown Swiss	All Other Breeds	Grade
<i>Spring Heifer Calf See Lake County Fair Book for all Birthdays of Class</i>					
<i>Winter Heifer Calf See Lake County Fair Book for all Birthdays of Class</i>					
<i>Fall Heifer Calf See Lake County Fair Book for all Birthdays of Class</i>					
<i>Summer Yearling Heifer See Lake County Fair Book for all Birthdays of Class</i>					
<i>Spring Yearling Heifer See Lake County Fair Book for all Birthdays of Class</i>					
<i>Winter Yearling Heifer See Lake County Fair Book for all Birthdays of Class</i>					
<i>Fall Yearling Heifer See Lake County Fair Book for all Birthdays of Class</i>					
<i>2-Year Old Cow See Lake County Fair Book for all Birthdays of Class</i>					
<i>3-Year Old Cow See Lake County Fair Book for all Birthdays of Class</i>					
<i>4-Year Old Cow See Lake County Fair Book for all Birthdays of Class</i>					
<i>5-Year Old Cow & Older See Lake County Fair Book for all Birthdays of Class</i>					

AWARDS

- 1 possible Best of Show breeding stock- green/white rosette
- 1 possible Grand champion ribbon each breed- purple rosette
- 1 possible Reserve champion ribbon each breed- pink rosette
- 1 possible Junior Showmanship Trophy (age 8 – 14)
- 1 possible Senior Showmanship Trophy (age 15 – 19)

Dairy Cattle Animal Science (SF 50135)

Prepare a display focusing on any activity related to the dairy cattle project. Demonstrate the skills and knowledge you have gained through the animal project you studied. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Animal Science Dairy Cattle Ready4Life Challenge (SF 50137) (Open to 11- to 18-year-olds enrolled in any Dairy Cattle project)

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Dairy Cattle Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do

Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.

All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

SWINE

Superintendents: Barb Pretzman 847-757-0573 & Denise Quinn 847-553-5610

ILLINOIS HEALTH REQUIREMENTS

Illinois Swine

Identification

1. Swine shall be identified by an official ear tag, tattoo or recognized breed ear notch.
2. Ear notch identification is acceptable for barrows, crossbred gilts and breeding swine.

(Note: Ear notch identification of crossbred swine does not satisfy USDA identification requirements for interstate movement or official testing.)

Brucellosis

Brucellosis testing is not required for Illinois swine.

Pseudorabies

Pseudorabies testing is not required for Illinois swine.

Out-of-State Swine

All out-of-state swine are to be accompanied by an entry permit. Entry permit numbers are available by calling the Illinois Department of Agriculture, Monday through Friday from 8:00 AM to 4:30 PM, at 217/782-4944. Permits may also be obtained online at: <http://www.agr.state.il.us/AnimalHW/animalregistry/login.php>

Identification

1. Individually identified by an official ear tag, tattoo or recognized breed ear notch.
2. Ear notch identification **is not** acceptable for crossbred animals.

Brucellosis

1. Breeding swine 4 months of age and older shall be negative to an official test for brucellosis within 30 days prior to exhibition unless exempt by one (1) of the following:
 - A. Originate immediately and directly from a validated brucellosis-free herd.
 - B. Originate directly from a validated brucellosis-free state.
2. Swine brucellosis tests for exhibition shall be conducted at a state or federal laboratory.

Pseudorabies

1. **Swine originating from a Pseudorabies Stage IV or V state are exempt from the pseudorabies testing requirement.**
2. Swine originating from a Pseudorabies Stage III state shall be negative to an official test for pseudorabies conducted within thirty (30) days prior to entry or originate immediately and directly from a qualified pseudorabies negative herd.
3. Swine originating from a Pseudorabies Stage I or II state shall be negative to an official test for pseudorabies conducted within the 10 days prior to entry.
4. Barrows and females in market classes must meet the same requirements as breeding swine.

4-H SWINE GENERAL REGULATIONS

1. All swine must be in the exhibitor's possession by May 1 and are subject to inspection.
2. **All 4-H Swine, must have head shot picture sent to the 4-H Office.**
3. Ear tags must remain in pig's ear until the superintendent review.
4. **Exhibitors may show more than one pig per class, but must ONLY have help from another Lake County 4-H member, however you are only allotted ONE premium out of this project area.**
5. A litter shall consist of 3 animals farrowed by 1 sow on or after February 1 of the current year and may include not more than 1 boar, or 2 Market Swine; it may consist of 3 gilts. A litter must have at least 1 gilt.
6. The Lake County Fair weigh in for ALL entries will be on **Tuesday from 4-8 p.m.**

4-H SWINE REGULATIONS (Barrow and Gilts Allowed)

1. **Market Swine** may be purebred or crossbred
2. If a **Market Swine** is shown in a Litter class, it may be shown in the Market class, if within proper weight limits.
3. To be shown or sold at the auction, **Market Swine** must weigh between 210-280 pounds, be farrowed after January 1 of the current year, and be inspected by the superintendent as fit for sale.
4. Following the 4-H State Fair guidelines, no re-weights will be allowed.
5. All **Market Swine** to be shown as a pen must be weighed-in under one exhibitor's name.
6. Scale weights of animals will determine the classes. The Swine Superintendent, 4-H staff, and class entry records will determine all swine classes at fair time.
7. A **Market Swine** not meeting weight requirements can be shown for a blue, red, or white rating. It **CANNOT** be auctioned.
8. **If the 4-H member intends to auction swine at either the Lake County Fair or the State Fair, it is mandatory that he/she attend the Pork Quality Assurance (PQA) workshop and obtain certification.**

	Chester White	Berkshire	Duroc	Hampshire	Poland/China	Yorkshire	Grade/Crossbreed
Gilt - Farrowed 1/1 to 1/31 of current year							
Litter - Farrowed 1/1 to 1/31 of current year							
Boar - Farrowed 1/1 to 1/31 of current year							
Gilt - Farrowed 2/1 to 3/1 of current year							
Litter - Farrowed 2/1 to 3/1 of current year							
Boar - Farrowed 2/1 to 3/1 of current year							
Gilt - Farrowed after 3/1 of current year							
Litter - Farrowed after 3/1 of current year							
Boar - Farrowed after 3/1 of current year							

CLASSES

OTHER CLASSES

Market-- Market Swine
Market—Pen of 2 Market Swine
Junior Showmanship (8-12 years of age)
Intermediate Showmanship (13-15 years of age)
Senior Showmanship (16-19 years of age)

AWARDS

1 possible Grand Champion Breeding Stock-trophy and purple rosette
 1 possible Reserve Champion breeding stock-pink rosette
 1 possible Grand champion purple rosette for each breed 1 possible Reserve champion pink rosette for each breed
 1 possible Grand champion trophy and purple rosette for market animal 1 possible Reserve champion trophy and pink rosette for market animal 3 possible Showmanship levels with champion trophy and purple rosette
 1 possible Grand Champion pen of Market Swine with purple rosette 1 possible Reserve Champion pen of Market Swine with pink rosettes

Swine Animal Science (SF 50135)

Prepare a display focusing on any activity related to the swine project. Demonstrate the skills and knowledge you have gained through the animal project you studied. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Animal Science Swine Ready4Life Challenge (SF 50137)

Open to 11- to 18-year-olds enrolled in any Swine project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Swine Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do

- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.

- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

4-H SHEEP

Superintendent: Sue Richards 847-878-3292

Assistant Superintendent: Becky White

MARKET LAMBS (WETHER AND EWE LAMBS ALLOWED)

ILLINOIS HEALTH REQUIREMENTS

Identification

Individual identification of each animal shall be by an ear tattoo or official metal or plastic tag. A microchip ID is acceptable if the owner provides the reader.

Ear tattoos may be used when a registration certificate, listing the tattoo number, accompanies the animal.

When using ear tags, the tag must indicate the premises ID and state of origin. The tag number must be assigned by a state or APHIS representative and recorded in the Scrapie Record Database.

Market Lambs

All wethers must be slick shorn (show ring ready) before weigh-in so that show lamb fungus can be identified.

Illinois Sheep

1. Sheep originating from a flock that has previously been classified as either an infected or source flock can be exhibited in Illinois upon the completion of an approved flock plan.
2. For any animal born after 1/1/2002, the CVI must include the flock of birth and the flock of origin, if different.

Out-of-State Sheep

All out-of-state sheep are to be accompanied by an entry permit. Entry permit numbers are available by calling the Illinois Department of Agriculture, Monday through Friday from 8:00 AM to 4:30 PM, at 217/782-4944.

Permits may also be obtained online at: <http://www.agr.state.il.us/AnimalHW/animalregistry/login.php>

1. Sheep originating from a flock that has previously been classified as either an infected or source flock can be exhibited in Illinois upon the completion of an approved flock plan.
2. For any animal born after 1/1/2002, the CVI must include the flock of birth and the flock of origin, if different.

4-H SHEEP GENERAL REGULATIONS

1. An exhibitor will not be allowed to enter more than two breeds in the Purebred class.
2. All lambs except senior lambs must have been born after January 1 of the current year or purchased as a lamb before May 15 of the current year.
3. All sheep must be docked.
4. Purebred sheep must be registered in the club member's name (full first name, middle initial and last name) and in the Flock Book of the respective breed association.
5. Indicate the breed on the entry form next to the premium number.
6. All market wethers must be tattooed for state show or ear tagged for the Lake County Fair show.

4-H MARKET LAMB REGULATIONS

1. Entries in the market class need not be purebred.
2. **A pen of market lambs consists of two lambs.**
3. Market lambs will have a fleece length of not more than one-half inch.

CLASS DEFINITIONS

1. Exhibitors may show only 2 entries per class; however *you are only allotted ONE premium out of this project area.*
2. Junior ewe or ram lambs are defined as those born after January 1 of the current year.
3. Senior ewe or ram lambs are those born between September 1 and December 31 of the previous year
4. Pen of two lambs or yearlings may consist of either ewes or rams.
5. A flock will be composed of one ram and any combination of two ewes.
6. Commercial ewes are defined as any crossbreed (2 or more breeds).
7. Get of sire: A combination of three sheep, any age or sex, produce of the same dam (two sheep from the same ewe, any age). One entry per exhibitor.
8. Club exhibit: Five animals of any breed owned by at least three exhibitors from the same club.

CLASSES

	Columbia	Corriedale	Dorset	Hampshire	Suffolk	Other Recorded Breeds	Commercial
Junior Ewe Lamb							
Senior Ewe Lamb							
Yearling Ewe							
Aged Ewe							
Junior Ram Lamb							
Senior Ram Lamb							
Yearling Ram							
Pen 2 Lambs							
Pen 2 Yearlings							
Flock							
Get of Sire							
Produce of Dam							
Club Exhibit							

OTHER CLASSES

Individual Market Lamb
Pen of 2 Market Lambs
Sheep Showmanship ages 8-12
Sheep Showmanship ages 13-19

All 4-H members exhibiting in the Lake County 4-H Sheep Show have an equal opportunity to participate regardless of previous placements.

AWARDS

- 1 possible Grand Champion purple rosette for each breed type
- 1 possible Grand Champion Ewe trophy and purple rosette
- 1 possible Grand Champion wether trophy and purple rosette
- 1 possible Reserve Champion wether trophy and pink rosette
- 1 possible Senior Showmanship Trophy (ages 13-19)
- 1 possible Junior Showmanship Trophy (ages 8-12)

Sheep Animal Science (SF 50135)

Prepare a display focusing on any activity related to the sheep project. Demonstrate the skills and knowledge you have gained through the animal project you studied. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Animal Science Sheep Ready4Life Challenge (SF 50137)

Open to 11- to 18-year-olds enrolled in any Sheep project

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Sheep Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogrammed to perform a different function other than what it was designed to do

Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.

All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

GOATS

Superintendents: Christina Muller – 847-845-4079

Show Date: Wednesday, July 30th – Check In - 8:30a.m. / Judging - 9:00a.m.

ILLINOIS HEALTH REQUIREMENTS

Identification

Individual identification of each animal shall be by an ear tattoo or official metal or plastic tag. A microchip ID is acceptable if the owner provides the reader.

Tattoos may be used when a registration certificate, listing the tattoo number, accompanies the animal.

When using ear tags, the tag must indicate the premises ID and state of origin. The tag number must be assigned by a state or APHIS representative and recorded in the Scrapie Record Database.

Ears should be used for tattooing when possible. If there is no space in the ear, the flank or tail fold may be used.

Illinois Goats

1. Goats originating from a herd that has previously been classified as either an infected or source herd can be exhibited in Illinois upon the completion of an approved herd plan.
2. For any animal born after 1/1/2002, the CVI must include the flock of birth and the flock of origin, if different.

Out-of-State Goats

All out-of-state goats are to be accompanied by an entry permit. Entry permit numbers are available by calling the Illinois Department of Agriculture, Monday through Friday from 8:00 AM to 4:30 PM, at 217/782-4944.

Permits may also be obtained online at: <http://www.agr.state.il.us/AnimalHW/animalregistry/login.php>

1. Goats originating from a herd that has previously been classified as either an infected or source herd can be exhibited in Illinois upon the completion of an approved herd plan.
2. Tuberculosis- Goats from areas or states that are not Accredited Bovine Tuberculosis Free, must be accompanied by a CVI indicating that the goats originated from a herd where a complete negative herd test has been conducted within the past twelve (12) months and the individual animals are negative to a tuberculin test conducted within thirty (30) days prior to entry. For any animal born after 1/1/2002, the CVI must include the flock of birth and the flock of origin, if different.

4-H GOAT GENERAL REGULATIONS

1. Judging will follow the American Dairy Goat Association rules or appropriate breed registry.
2. Market wethers may be used for showmanship.
3. Members **MUST** check in with the superintendent and show registration papers by 8:30 a.m. on showday.
4. Dairy whites are required for showing of Dairy Goat.
5. Review 4-H Livestock General Regulations.
6. Any goat being used for Pet Class must be a goat that is not competing in any breed or market class. You may not show the same goat in a breed/market class, and also use the same animal for the pet class.
7. Any doe of a breed that is not listed should be entered in the "All Other Breeds" class. This includes, but is not limited to, , Pygmys, Fiber Goats, Boers, and Recorded Grade.
8. Exhibitor may show only 2 entries per class for a listed breed; however you are only allotted ONE premium out of this project area.

Beginner Showmanship: 8-11

Intermediate Showmanship: 12-15

Senior Showmanship: 15-18

GOAT CLASSES

	Alpine	Nubian	Saanen	Toggenburg	La Mancha	Oberhasli	Other Breeds	All	Nigerian Dwarf
Junior Kid born 4/1 or later									
Senior Kid born 1/1 to 3/31 of current year									
Dry Yearling Doe 1 year old and under 2, not in milk									
Milking Yearling Doe 1 year old and under 2, in milk									
Milker 2 yrs, under 3									
Milker 3 yrs, under 4									
Milker 4 yrs, under 5									
Milker 5 yrs and older									
Get of Sire 2 does any age, must have same sire									
Dam and Daughter Any age owned by exhibitor									
Produce of Dam 2 animals any age from same dam, owned by the exhibitor									
Breeders Herd Composed of 1 milking doe, 1 yearling doe that is milking or dry, and 1 doe under 1 year									
Club Exhibit 5 animals of any breed owned by at least 3 exhibitors from the same club. 4-H club leader to decide which animals participate.									

OTHER GOAT CLASSES

Pet Class Open to wethers or does and judged on cleanliness, hoof trimming, coat and body condition, and general good health and appearance. Exhibitor to be well-groomed also. Animals to be well-behaved and well-mannered in the show ring. Conformation is not to be considered in this class. The exhibitor's knowledge of the animal will be considered and scaled for age and years of experience.
Goat Showmanship Any age animal may be shown by exhibitor. All should enter this class as comments will be given to each exhibitor and the ADGA showmanship score card will guide the judging in this division.
Market Wethers Born after January 1 of the current year.

AWARDS

- 1 possible Best of Show green/white rosette and trophy out of all goats
- 1 possible Grand Champion purple rosette for each breed type
- 1 possible Reserve Champion pink rosette for each breed type
- 1 possible Grand Champion purple rosette for pet class
- 1 possible Reserve Champion pink rosette for pet class

1 possible Trophy for Beginner Showmanship
1 possible Trophy for Intermediate Showmanship
1 possible Trophy for Senior Showmanship
1 possible Grand Champion trophy and purple rosette for Market wether class
1 possible Reserve Champion trophy and pink rosette for Market wether class

BEST OF SHOW-is at the discretion of the judges and includes all candidates in market and breed Categories

NEW - 1 possible “4-H Spirt Award Trophy” Awarded to a selected youth who shows the most 4-H spirit

Goat Animal Science (SF 50135)

Prepare a display focusing on any activity related to the goat project. Demonstrate the skills and knowledge you have gained through the animal project you studied. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Animal Science Goats Ready4Life Challenge (SF 50137)

Open to 11- to 18-year-olds enrolled in any Goat project

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Goats Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogrammed to perform a different function other than what it was designed to do

Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.

All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

HORSE AND PONY

Superintendent – Karen Dietrich - 847-356-3698

No Horse Show for 2020 County Fair.

ILLINOIS HEALTH REQUIREMENTS

Illinois Equine

1. All horses and other equidae, twelve (12) months of age and older attending an advertised equine event, shall be accompanied by a negative test for equine infectious anemia (EIA) conducted within the last twelve (12) months. A copy of this test shall accompany the animal.
2. AGID (Coggins) or ELISA tests are accepted.
3. An advertised equine event means a show, rodeo, sale, auction, exhibition, trail ride, or horse fair that is posted or media promoted.
4. A CVI is not required for Illinois equine.

Out-of-State Equine

All out-of-state equine are to be accompanied by an entry permit. Entry permit numbers are available by calling the Illinois Department of Agriculture, Monday through Friday from 8:00 AM to 4:30 PM, at 217/782-4944. Permits may also be obtained online at: <http://www.agr.state.il.us/AnimalHW/animalregistry/login.php>

1. All horses and other equidae entering Illinois that are twelve (12) months of age or older, shall be accompanied by a negative test for equine infectious anemia (EIA) conducted within the last twelve (12) months. A copy of this test shall accompany the animal.
2. AGID (Coggins) or ELISA tests are accepted.
3. All horses and other equidae shall be accompanied by a CVI issued within thirty (30) days prior to entry.

4-H HORSE AND PONY GENERAL REGULATIONS

1. All 4-H horse project members are required to submit a completed HORSE PROJECT FORM for each animal by May 1 of the current year. All six sections must be completed and signed by member and parent. Attach a color photo of the horse: side view, no tack. 4-Hers may submit as many Horse Project Forms as they wish.
2. Ethics—All first year horse project members are required to attend an approved Ethics Class given by the Extension Office in order to be eligible to show at the fair.
3. Coggins—All horses must have proof of a current negative Coggins test. Bring papers when trailering a horse to any 4-H event. The show office must check papers before the horse can be shown on fair days.
4. Riders must wear boots that have heels while riding at all events.
5. Riders must wear helmets at all jumping events.
6. Brutal treatment of any horse or pony will not be tolerated.
7. 7. Instructors, volunteers, judges, and Extension staff shall be treated with respect.
8. All riders will show sportsmanship at all events.
9. All Western and English classes will follow the *Guidelines for 4-H Shows in Illinois*. Copies are available at the Extension Office.
10. 10. No stallions are allowed.
11. Youth will receive premiums for English and Western exhibits. Members are limited to showing no more than 3 animals in the combined 2 shows. A rider can show only once per class. Horse can show only once per class.
12. The decisions of the judges are final.
13. There will be 4 divisions: Special Honors, Advanced, Intermediate, and Beginner. Classes will run in this order.
14. Any rider receiving a Grand and a blue rating in the same performance class (pleasure and equitation) will automatically be advanced to the next level for the following year. The following classes will not affect level: speed, trail, costume, novelty, jumping, dressage, and showmanship.
15. All Beginner classes will be shown at walk and trot only. No Beginner riders may show in jumping classes or speed events, except for Beginners Game class.
16. Animals may not be ridden anywhere except in the ring or the designated warm-up area. Only the exhibitor may ride the horse while on the show grounds. Only 4-H horses being shown should be on the grounds that day.
17. Horses and ponies prone to kicking must wear a red ribbon in their tail.
18. In the Driving class, only 2 or 4 wheel vehicles are allowed. Blinkers are preferred. One attendant is allowed in the ring. Paddock Marshall shall decide if turn out is eligible to compete in the class. The Driving class will be the first class after lunch break on Western Day.

19. There will be a one-minute time limit to enter the ring. If there is a tack change, notify the announcer at least 2 classes in advance. Once the gate is closed, the class is complete.

20. Horses and ponies must be taken home at night. The show grounds must be cleared by 5 p.m. No class shall enter the ring after 4 p.m.

ATTIRE AND EQUIPMENT

1. Proper Hunt Seat, Saddle Seat, Western or Driving attire should be worn. **Boots with heels must always be worn.** Long hair should be tied back.

- Western: chaps, gloves, and spurs are optional.
- English Hunt Seat: crops, gloves, and spurs are optional.
- English Saddle Seat: whips, gloves, and spurs are optional.
- Driving: whips and gloves are optional.

2. Complete English and Western equipment will be required in all classes. Curb chains are allowed, but must be flat and at least ½" wide.

3. Mechanical hackamores are allowed in speed classes only. Tie downs or martingales may be used in speed and jumping classes only. Roping reins are recommended for speed events; however, reins can be tied to keep them out of the way.

4. FAILURE TO COMPLY WITH ANY OF THE ABOVE RULES COULD RESULT IN A WARNING OR COMPLETE DISMISSAL FROM THE HORSE SHOW.

ENGLISH HORSE AND PONY CLASSES

	Special Honors	Advanced	Intermediate	Beginner
Grooming and Showmanship				
Trail				
Equitation				
Beginner Equitation (walk/trot)				
Pleasure				
Beginner Pleasure (walk/trot)				
Bareback Equitation				
Beginner Bareback Equitation (walk/trot)				
Command Class				
Beginner Command Class (walk/trot)				

1 Possible Best of Show out of all English Horse

1 Possible Grand for each class

1 Possible Reserve for each class

The following fun classes are not eligible for premiums or competitive ribbons (i.e. Grands, Reserves, or BOS) and will be run as time allows: Novelty (all levels) and Costume. To enter in these classes, register on the separate horse form included with your fair registration.

WESTERN HORSE AND PONY CLASSES

AWARDS

	Special Honors	Advanced	Intermediate	Beginner
Grooming and Showmanship				
Trail				
Horsemanship				
Beginner Horsemanship (walk/trot)				
Pleasure				
Beginner Pleasure (walk/trot)				
Bareback Horsemanship				
Beginner Bareback Horsemanship (walk/trot)				
Command Class				
Beginner Command Class (walk/trot)				
Western Riding				
Western Reining				

- 1 Possible Best of Show out of all of Western Horse**
- 1 Possible Grand for each class**
- 1 Possible Reserve for each class**

The following fun classes are not eligible for premiums or competitive ribbons (i.e., Grands, Reserves, or BOS) and will be run as time allows: Novelty (all levels), Costume, Beginners Game, Key Hole Race, Barrel Race, Flag Race, and Pole Bending. To enter in these classes, register on the separate horse form included with your fair registration.

Horse Animal Science (SF 50135)

Prepare a display focusing on any activity related to the horse project. Demonstrate the skills and knowledge you have gained through the animal project you studied. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Animal Science Horse Ready4Life Challenge (SF 50137)

Open to 11- to 18-year-olds enrolled in any Horse project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Horse Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do

Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.

All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

POULTRY

Embryology projects should be entered in Animal Science 1 (Animal Sciences).

**Judging in 2020– to be at the Lake County Fairgrounds on Sunday, July 26, 2020 / BARN AREA/
CHECK IN 12:30p.m. SHOW STARTS 1:30p.m.**

Superintendent

4-H POULTRY GENERAL REGULATIONS

Illinois Department of Agriculture- Livestock Health Requirement

1. All entries (except waterfowl, i.e. domesticated fowl that normally swim, such as ducks and geese) in a show or exhibition shall have originated from a U.S. Pullorum-Typhoid Clean or equivalent hatchery or flock OR have a negative pullorum-typhoid test within 90 days prior to exhibition. Exhibitor shall show proper information as to name and address of owner or exhibitor, name and address of the authorized testing agent, date of the testing and the number, breed, and species of those tested.
2. Prior to being used to transport poultry to a show, all crates, boxes, containers and vehicles shall be thoroughly cleaned and disinfected.
3. Any poultry vaccinations must be performed at least 4 weeks prior to delivery to the show.
4. Upon admission to a show, all entries shall be examined by the official county fair veterinarian or qualified state personnel who shall also receive and examine all certificates necessary for admission of birds to a show. Birds not in show condition will be excused from exhibition and removed from the premises. Any fowl showing signs of illness during the fair will be removed from the exhibition grounds.
5. All out-of-state turkeys must originate from flocks that are officially classified as U.S. Mycoplasma Gallisepticum Clean in accordance with the provisions of the National Poultry Improvement Plan or be negative to a test for Mycoplasma gallisepticum within 30 days prior to entry.
6. A permit is also required for out-of-state poultry. A permit may be obtained by calling (217) 782-4944.

Please note: These poultry exhibition requirements do not apply to 4-H and FFA 1-day poultry shows where the entries are taken to the show and returned home the same day. However, a permit is required for out-of-state poultry.

4-H POULTRY GENERAL REGULATIONS

1. Exhibitors must comply with health regulations and general 4-H rules.
2. **Exhibitors may show only 3 entries per class. Eggs only one entry per class. Exhibitor may show only 2 entries per class for a listed breed.**
3. Exhibitors may show only one entry in showmanship. (may use chicken, duck, pigeon or turkey)
4. The American Poultry Association's "American Standard of Perfection" will be the guideline for judging breed-type classes with utility being emphasized.
5. All birds must be in the possession of the 4-H exhibitor by **MAY 1** of the current year.
6. Exhibitor must accompany their Chickens to the show and must bring them to the judge when their class is called. Pigeons, Turkeys, Pheasant, Quail, Guinea Fowl, Peacocks, Ducks and Geese will be judged in their pens.
7. The 4-H members should dress appropriately – NO short nor jeans or T-Shirts unless 4-H club shirts which are encouraged. Nice pants and a shirt with a collar are recommended.
8. Trio will consist of 1 male and 2 female NOTE: bird may not be entered in any other class. Will be judged for breed uniformity and consistency (should be same breed).
9. Pen will consist of 3 females NOTE: birds may not be entered in any other class. Will be judged for breed uniformity and consistency (should be same breed).
10. Birds should be fully feathered and a minimum of 3 months of age at show. Dubbing combs is not required for Lake County show, State Fair Rules may differ.
11. **All Exhibitors and must assist with building set up the Sunday prior to show and must claim their birds and help teardown equipment at 5:00 p.m on Sunday (last day of fair). .**

Chicken Class

	Old Cock (hatched before January 1)	Old Hen (hatched before January 1)	Cockerel (hatched after January 1)	Pullet (hatched after January 1)
American				
Mediterranean				
Asiatic				
English				
Continental				
All other standard				
Production breeds				
Standard Chicken Pen				
Bantam Trio				
Bantam-single comb clean leg				
Bantam-any other comb clean leg				
Bantam-game bird				
Bantam-feather legged				
Bantam-cochin				
Market Meat bird Single roaster under 4 lbs.				
Market Meat bird Single broiler over 4 lbs.				
Market Meat birds Pair of Roasters under 4 lbs. each				
Market Meat birds Pair of Roasters over 4lbs each				
PET – doesn't meet poultry standard for breed class or it's a mixed breed				

Duck Classes

	Old Drake (male hatched before January 1)	Old Duck (female hatched before January 1)	Young Drake (male hatched after January 1)	Young Duck (female hatched after January 1)
Heavy weight breed				
Medium weight breed				
Light weight breed				
Call /Bantam				

Geese Classes

	Old Gander (male hatched before January 1)	Old Goose (female hatched before January 1)	Young Gander (male hatched after January 1)	Young Goose (female hatched after January 1)
Heavy Weight				
Medium Weight				
Light Weight				

Turkey Classes

	Old Tom (male hatched before January 1)	Old Hen (female hatched before January 1)	Young Tom (male hatched after Jan- uary 1)	Young Hen(female hatched after Jan- uary 1)
Bronze				
White				
Any Other				

Miscellaneous Classes

	Old Male hatched before January 1	Old Female hatched before January 1	Young Male hatched after January 1	Young Fe- male hatched after January 1
Peacock				
Pheasant				
Quail				
Guinea Fowl				
Pigeon				
Doves				

Egg Classes

Egg Production- Other than chicken eggs	
Egg Production- Brown Chicken egg	
Egg Production – Any other color chicken egg	

Showmanship

Junior Poultry Showmanship (age 8-12)	
Intermediate Poultry Showmanship (age 13-15)	
Senior Poultry Showmanship (age 16 and up)	

- 1 Best of Show Chicken
- 1 Best of Show any other bird
- 1 grand -1 reserve Standard Hen
- 1 grand -1 reserve Standard Cock
- 1 grand -1 reserve Market Chicken
- 1 grand -1 reserve Bantam Chicken
- 1 grand -1 reserve Duck
- 1 grand -1 reserve Geese
- 1 grand -1 reserve Turkey
- 1 grand -1 reserve Pigeon
- 1 grand -1 reserve any other bird
- 1 grand -1 reserve Egg Production
- 1 grand -1 reserve Pet Chicken
- 1 trophy for each Poultry Showmanship Level

Class Definitions as found in “American Standard of Perfection”

- American = Barred, Buff, White, Partridge rocks; Wyandotte; Rhode Island Red; New
- Hampshire Red; Delaware; Buckeye; Dominique; Java; Jersey Giant
- Mediterranean= White, Dark Leghorns; Andalusian; Ancona; Buttercup; Minorca
- Asiatic= Brahma; Cochin; Lanshan
- English= Orpington, Australorp, Sussex, Cornish Dorking (English), Houdan Welsummer
- Continental = Hamburgs; Polish; Marans; Faverolles; Hudan; Welsummer; Lakenvelder; Barnevelder; Campine
- Any Other Standard = Ameracana; Araucana; Phoenix; Sumatra; Turken
- Production breeds= AustraWhite; Black Star; Cinnamon Queen; Cherry Egger; Gold
- Commet; Red Star and any other standard breed that is not a APA recognized color
- Bantam-single comb clean let = Rocks, Leghorn
- Bantam-Any other comb clean leg = Cornish, Polish, Belgian D’Anver; Seabright
- Bantam Feather legged = Brahma; Silkie; Belgian D’Uccle; Millifleur D’Uccle
- Bantam – Game bird = Old English
- Bantam –Cochin = Barred, Buff, Partridge, Black, White
- Heavy Weight Duck = Muscovy, Pekin, Rouen, Aylesburg,
- Medium Weight Duck = Buff, Swedish, Crested, Cayuga
- Light Weight Duck = Magpie, Campbell, Indian Runner
- Heavy Weight Goose = Toulouse, Embden, African
- Medium Weight Goose = Sebastopol, Pilgrim, Buff
- Light Weight Goose = Chinese, Egyptian, Canadians, Romans

Poultry Animal Science (SF 50135)

Prepare a display focusing on any activity related to the poultry project. Demonstrate the skills and knowledge you have gained through the animal project you studied. The exhibit may include, but isn’t limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you’ve learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Animal Science Poultry Ready4Life Challenge (SF 50137)

Open to 11- to 18-year-olds enrolled in any Poultry project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Poultry Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogramed to perform a different function other than what it was designed to do

Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.

All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

RABBITS

TBD

Superintendents: call the extension office

4-H RABBIT GENERAL REGULATIONS

- 1) Exhibitor must have owned the rabbit since January with the exception of junior rabbits which must have been in exhibitors care for at least 2 months prior to the show.

For breed type classes, rabbits will be judged by the “Standards of Perfection”. “ARBA Standard of Perfection is available to view at the extension office or online.

Rabbits showing any signs of disease will not be accepted or allowed to exhibit.

Exhibitors must accompany their rabbits to the show and must bring them to the judging ring for judging when their classes are called. No one will be allowed to handle rabbits except the exhibitor, judges or show officials.

- 5) Exhibitors may show only 2 entries per class for a listed breed; however you are only allotted ONE premium out of this project area.**

Exhibitors may show only one rabbit in showmanship

The same rabbit may not be entered in breed class and pet class.

- 8) Use ARBA Standard of Perfection to determine correct class with regard to age and weight.

- 9) All exhibitors must pick up animals and tear down displays at 5:00p.m. Sunday.**

Six Class Breeds

Breeds	Senior Buck	Senior Doe	Intermediate Buck	Intermediate Doe	Junior Buck	Junior Doe
New Zealand						
Californians						
Satins						
Lop - French and English						
Any other 6 class breed						

Four Class Breeds

Breeds	Senior Buck	Senior Doe	Junior Buck	Junior Doe
Dutch				
Mini-Rex				
Rex				
Mini-Lop				
Holland Lop				
Netherland Dwarf				
Any other 4 class breed				

Pet Class - includes all mixed breed and rabbits not meeting the ARBA standards

Breed	Buck	Doe
Pet		

Showmanship

Showmanship	Junior: Age 8-12	Intermediate: Age 13-15	Senior: Age 16 up

1 Possible Best of Show out of all Rabbits 1 possible Grand for Best of Breed

1 possible Reserve for Best Opposite Sex 1 Possible Grand for Pet class

1 Possible Reserve for Pet class

1 Possible Trophy for each level of Showmanship

RABBITS

Rabbit Animal Science (SF 50135)

Prepare a display focusing on any activity related to the rabbit project. Demonstrate the skills and knowledge you have gained through the animal project you studied. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Animal Science Rabbits Ready4Life Challenge (SF 50137)

Open to 11- to 18-year-olds enrolled in any Rabbit project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Rabbits Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do)

- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.

- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

SMALL PETS SHOW

Superintendent: Tammy Olson – 847-445-3861

**SMALL PET SHOW - JUDGING IN 2020– TO BE HELD AT THE MILLBURN CHURCH,
19073 W. GRASS LAKE RD., MILLBURN, IL**

SATURDAY, MAY 2, 2020 CHECK IN 2:30P.M.
SUPERINTENDENT: CALL THE EXTENSION OFFICE

NOTE: The small pet show (all animals) will be held in the both classroom areas. If you have any allergies that may cause you any inconvenience, there will be chairs set up outside to accommodate families.

1. 4-H SMALL PET GENERAL REGULATIONS

2. ALL EXHIBITORS MUST BRING THEIR PROJECT BOOKS TO JUDGING!
3. The 4-H members should dress appropriately – NO jeans or T-Shirts unless 4-H club shirts which are encouraged. Nice pants and a shirt with a collar are recommended.
4. All animals be in the care of the 4-H member showing them, by January 31st.
5. The 4-H member may exhibit only 2 entries per class
6. Exhibitors MUST bring animals to the show in a secure travel carrier or cage appropriate for pet's safety and comfort. Members must be present on day of judging to speak with the judge. Including Small Pet Reports. If exhibitor is not present project will be dropped one ribbon level.
7. Do not bring sick pets; they will be disqualified and member will be asked to remove the pet from the building immediately.

Small Pet Reports should be written for fish, birds and pets that are poisonous, venomous, have personality that would prevent them from attending show, medical issues, or animals that cannot be held safely or brought to the show. Small pet reports are to be turned in prior to the show on date listed below.

9. Reptiles and amphibians brought to the show must be hand tame (comfortable with being handled) and able to be carried to the judge by exhibitor. *** Any animal too big to handle or unsafe to show, should not be brought to the show. The member is advised to do a small pet report instead. For any questions please contact the Extension office or small pet superintendent.**

10. All Small pets - Must comply with the Illinois dangerous animal act.

Small Pet Report

Small Pet Report

1. ***Exhibit a notebook or folder containing all project information.***

Reports must be in a folder or binder and follow the "Small Pet Outline" available at the office or online <http://web.extension.illinois.edu/lm/downloads/47101.pdf>

Small pet reports must be turned in on **FRI-DAY, APRIL 20TH by **4:30p.m.** at the **Extension** office or at the Small Pet Showmanship Clinic on Friday, May 5th. Include project book with re-**

2. ***Include a report (1-3 typed pages) about the***

pet or personal learning experiences, project planning sheet, pictures of the pet and the equipment used for care.

3. ***Report should include care of animal; habits of your pet; natural life expectancy; and personal experiences such as something silly your pet did.***
4. ***Members enrolled for more than one year must show growth in the project. Previous records, reports, etc. are to be included in the notebook. Use tabs/dividers to separate project by year. Grammar and content will be considered.***

Small pet reports will be judged prior to the Small Pet Show on Saturday, May 2nd at the Small Pet Show- Check In 2:30p.m. Judging 3:30p.m and will then be reviewed by the judge with the member during a brief conference judging session at the Small Pet Show.

Cavy Classes

Mixed breed Cavies or cavies that do not meet standard for their breed should be entered under Miscellaneous Cavies.

	American Shorthair	Abyssinian	Peruvian	Teddy	Miscellaneous Cavies (mix breed)
Boar (male)					
Sow (female)					

Mammal Pet Classes

	Rats	Mice	Hamsters	Gerbils	Miscellaneous
Male					
Female					

Miscellaneous Pet Classes

Turtles/Tortoise	Snakes	Lizards	Amphibians	Crustaceans

1 Best of Show for Cavy; Rodent; Small Pet and Small Pet Report

1 possible Grand and Reserve for each class of Cavy

1 possible Grand and Reserve for each class of Small Mammal

1 possible Grand and Reserve for each class of Miscellaneous Other Pet

1 possible Grand and Reserve for Small Pet Report

SMALL PETS

Animal Science Small Pets (SF 50135)

Prepare a display focusing on any activity related to the small pets project. Demonstrate the skills and knowledge you have gained through the animal project you studied. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Animal Science Guinea Pig Display (SF 50135)

Prepare a display focusing on any activity related to the small pets project. Demonstrate the skills and knowledge you have gained through the animal project you studied. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Animal Science Small Pets / Guinea Pig Ready4Life Challenge (SF 50137)

Open to 11- to 18-year-olds enrolled in any Small Pets project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Small Pets Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogrammed to perform a different function other than what it was designed to do

Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.

All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

DOGS

Superintendent: Holly Hendershott and Renee Wright

JUDGING ON TBD— MOCK DOG SHOW

TUESDAY, JUNE 5—DOG CARE SHOW

(Time—TBD)

TBD – DOG SHOW JUDGING (ONLY— OBEDIENCE & SHOWNMANSHIP)

4-H DOG GENERAL REGULATIONS Exhibitor = 4H'er

1. Exhibitors must be 8 years old as of September 1, 2019
2. All dogs must be 6 months of age by the start of training. If your dog is younger, the exhibitor can compete with their puppy in the Dog Care class corresponding to the exhibitor's age bracket. Under the discretion of the Dog Superintendent for being able to compete in a showmanship class.
3. All Dogs must pass the AKC Canine Good Citizenship test to participate in the Lake County Dog program (if your dog does not pass the test this year, you may re-take the test the following year.)
4. All exhibitors are enrolled in the Dog Care Category.
5. An exhibitor shall be limited to one entry/dog in each obedience class. The same dog cannot be entered in two different obedience classes, but the same dog can be entered in both an Obedience class and showmanship class if it has qualified for both at the County level.
6. An exhibitor may enter one dog in Showmanship class.
7. An exhibitor may enter one dog in Dog Care class.
8. An exhibitor must show the same dog in Obedience, Showmanship, & Dog Care to be eligible for "Best of Show" title.
9. Dogs are to be free of any communicable diseases (fleas, parasites, etc.) and an updated certificate indicating proof of rabies and DHLPP inoculations is required to be shown before the show or training/ or you will not be able to enter the building before training sessions. All shots should be current 10 days prior to show.
10. ONLY dogs being exhibited are allowed on the grounds.
11. All dogs must be leashed or crated while on the grounds. Dogs must be under the exhibitor's supervision at all times. At no time should the dog be tied up or unattended!
12. Exhibitors are to provide their own water dish, rug, crate, and grooming equipment (ex. brush & comb).
13. Any exhibitor who strikes their dog will be disqualified and asked to leave the fairgrounds.
14. A biting dog or one showing signs of viciousness will be disqualified at the discretion of the superintendent. (Dogs who have bitten someone must be impounded for 10 days according to the Illinois State Law and Lake County Health Department. This will be the responsibility of the exhibitor and his/her parents). An incident report will be completed at time of incident.
15. Exhibitor should register more than one dog in the event exhibitor has a female dog which may come into season; and cannot be shown. A different dog may be substituted with approval of the dog show superintendent providing all correct paperwork has been submitted by June 1 of the show year.
16. Nursing female dogs with puppies or puppies less than 3 months or age will NOT be allowed on the grounds.
17. All Obedience participants must use appropriate show equipment. Acceptable leashes are a maximum of 6 ft. (can be shorter in advanced classes) of leather, nylon or canvas. No prong or electronic collars will be allowed on the grounds. No identification tags on collars used in the show ring. Harnesses or other training aids such as a gentle leader are not acceptable show equipment.
18. All dogs exhibiting in Showmanship classes are required to have a regulation show lead (if you require a leash one can be purchased for your exhibitor at a fee from the Superintendent).

Judging Guidelines:

19. Judging for Obedience will be judged on skill level of task assigned to their levels: Beginner Novice I, Beginner Novice II, Pre-Novice, Novice, Graduate Novice, Pre-Open, Open, Graduate Open, and Utility. In most obedience classes, commands/signals given by handler will be either voice or hand, but not both. Qualifying score will be 170 or higher and in the event of a tie a run off will be held in the class.

- A. all beginning level classes will use on leash heeling exercises. (Beginner Novice I and II, Novice and Graduate Novice)
- B. All advanced classes will use Novice off lead heeling exercises. (Pre-open and above)

20. Judging for Showmanship will be judged on handling skill, knowledge of breed standards of their dog, dog show terminology and elementary dog anatomy. The judge has the right to question exhibitors in one or all of these areas.
21. Judging for Dog Care is based on knowledge, attitude, & how child care's for dog at home. Consideration will be given to overall good health, appearance, & vigor of the dog (brushing, feeding, clean ears, teeth maintenance, absence of parasites & trimmed nails).
22. Project manuals, proof of required classes attended, and current vaccination records will be required the night of the mock show for the Superintendent to review prior to show.

OBEDIENCE CLASSES

Beginner Novice I

- Inexperienced handler and dog.

Beginner Novice II

- Either dog or handler has previous experience.
- Exhibitor/dog who did not pass Beginner Novice I with a score of 170.

Pre-Novice

- Successful completion of beginner novice I or beginner novice II with a score of 170 or higher.

Novice

- Successful completion of pre-novice with a score of 170 or higher

Graduate Novice

- Successful completion of novice with a score of 170 or higher.

Pre-open

- Successful completion of graduate novice with a score of 170 or higher.

(ANY HIGHER CLASSES WILL BE WITH THE INSTRUCTOR'S APPROVAL)

***QUALIFYING SCORE TO COMPETE DOWN STATE IS 170. ANY EXHIBITOR THAT QUALIFIES IS ELIGIBLE TO GO DOWN STATE. YOU MUST BE 8 YEARS OLD AS OF SEPTEMBER 1 2016.

SHOWMANSHIP CLASSES

(Open classes are for exhibitors that have previously won a Grand or Reserve in their previous 4-H year(s) showmanship Class – does not matter if a different dog was shown OR if they professionally compete in sanctioned AKC Dog shows)

Novice Showmanship (ages 8-13)

Open Showmanship (ages 8-13)

Novice Showmanship (ages 14-19)

Open Showmanship (ages 14-19)

***TWO EXHIBITORS WILL BE CHOSEN TO COMPETE DOWN STATE
– THE BEST JUNIOR AND BEST SENIOR HANDLER.

DOG CARE CLASSES

Exhibitors may enter one dog in Care class. Exhibitors will be judged on their knowledge based on age and years in the project. All exhibitors are responsible for knowing how and why all aspects of grooming are done. Knowledge of basic first aid is also required. Long-hair dogs are those with fringing or long hair on legs.
Short-hair dogs are those with smooth leg hair.

SHORT & LONG HAIR

Dog Care (ages 8-11) Dog

Care (ages 12-14) Dog

Care (ages 15-19)

AWARDS

Possible Awards

- 1 “Best of Show” for entire show must compete in all 3 classes with same dog
- 1 “Best Junior Showmanship” trophy
- 1 “Best Senior Showmanship” trophy
- 1 “Best Dog Care Long Hair” trophy
- 1 “Best Dog Care Short Hair” trophy
- 1 “Highest Scoring Dog in Obedience” trophy

Ribbons

1 Grand for each class

Obedience – 6 classes

Showmanship – 4

classes Dog Care – 6

classes

1 Reserve for each

class Obedience – 6

classes Showman-

ship - 4 classes Dog

Care – 6 classes

DOG

Dog Animal Science (SF 50135)

Prepare a display focusing on any activity related to the dog project. Demonstrate the skills and knowledge you have gained through the animal project you studied. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Animal Science Dog Ready4Life Challenge: (SF 50137)

Open to 11- to 18-year-olds enrolled in any Dog project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Dog Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)

Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.

All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

CATS

Superintendents: Christina Muller - 847-845-4079

angel121289@yahoo.com

*Judging for Cat classes is during the 'Small Pet Show' on Saturday, May 3, 2020—
Millburn Church, 19073 W. Grass Lake Rd. Millburn,*

Check In—2:30p.m. Judging 3:00p.m.

4-H CATS GENERAL REGULATIONS

1. Exhibitors may show only 2 entries per class and only 1 in showmanship.
2. Cats **MUST** be brought to the show in a secure carrier. Cats must stay in carriers before and after judging. Failure to follow this rule will result in a lowering of your judging score. This is a matter of safety.
3. Cats are to be free of any communicable diseases (fleas, parasites, etc.). Cats with any of the above will be disqualified and sent home.
4. Any cat that bites or shows signs of viciousness will be disqualified.
5. **5.** An updated copy of a certificate indicating proof of rabies and feline distemper/rhino vaccinations **MUST be turned in to the Extension by Monday, April 20TH**
6. Nursing mother cats can be shown, but **DO NOT** bring the kittens.
7. Judging will be based on the member's knowledge of the care, management, and general good health of the animal (clean teeth and ears, clipped nails, and clear eyes).
8. Each exhibitor is responsible for bringing a bowl for water, comb and brush, and other grooming supplies as needed. Food and litter are optional.
9. Cats **MUST BE ATTENDED TO AT ALL TIMES**. Exhibitors are responsible for any damage done by their cats.
10. Only cats being exhibited are allowed on the grounds.
11. Bring your Cat Project book to judging
12. The 4-H members should dress appropriately – 4-H club shirts which are encouraged. Nice pants and a shirt with a collar are recommended.

CLASSES

Short Hair Male	Short Hair	Long Hair
Short Hair Female		
Long Hair Male		
Long Hair Female		

Cat Showmanship Classes - changes in each area

Junior Showmanship (age 8-12)

Bring your groomed cat and be able to do ALL the following:

1. Demonstrate a grooming procedure(s) as requested by the judge. Bring grooming supplies.
2. Show how to lift and hold a cat
3. Be able to identify parts of a cat as requested by the judge.
4. Be able to explain and pose your cat.
5. Be able to discuss a suitable diet for your cat. Consider the cats age and condition, ect.

Intermediate Showmanship (age 13-15)

Bring your groomed cat and be able to do ALL the following with limited judge support:

1. Demonstrate a grooming procedure(s) as requested by the judge. Bring grooming supplies.
2. Show how to lift and hold a cat
3. Be able to identify parts of a cat as requested by the judge.
4. Be able to explain and pose your cat.
5. Be able to discuss a suitable diet for your cat. Consider the cats age and condition, ect.
6. Be able to discuss flea prevention and control.

Senior Showmanship (age 16-19)

Bring your groomed cat and be able to do ALL the following all on your own with little to no judge intervention:

1. Demonstrate a grooming procedure(s) as requested by the judge. Bring grooming supplies.
2. Show how to lift and hold a cat
3. Be able to identify parts of a cat as requested by the judge.
4. Be able to explain and pose your cat.

5. Be able to discuss a suitable diet for your cat. Consider the cats age and condition, etc.
6. Be able to discuss flea prevention and control.

Awards

1 Possible Best of Show out of all of Cat

1 Possible Grand from Shorthair classes

1 Possible Grand from Longhair classes

1 Possible Reserve from Shorthair classes

1 Possible Reserve from Longhair classes

1 Possible trophy per level of Cat Showmanship

CAT

Cat Animal Science (SF 50135)

Prepare a display focusing on any activity related to the cat project. Demonstrate the skills and knowledge you have gained through the animal project you studied. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Animal Science Cat Ready4Life Challenge (SF 50137)

Open to 11- to 18-year-olds enrolled in any Cat project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Cat Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogramed to perform a different function other than what it was designed to do)

- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.

- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

4-H GENERAL PROJECTS



AEROSPACE Each county may send 2 entries total from 50130, 50131; and 1 entry from 50133. –

Aerospace 2 Model Rocketry: (SF 50130)

Exhibit one model rocket assembled or made by the member. The exhibit will be a static display. The model rocket should be in good flying condition. DO NOT include the rocket engine with your exhibit. The rockets will not be launched. Attach the printed directions for construction of the rocket if any were used.

Aerospace 2 Aerospace Display: (SF 50131)

Prepare a display related to the aerospace project which does not fit in the model rocketry class. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Aerospace 3 Model Rocketry (SF 50130)

Exhibit one model rocket assembled or made by the member. The exhibit will be a static display. The model rocket should be in good flying condition. DO NOT include the rocket engine with your exhibit. The rockets will not be launched. Attach the printed directions for construction of the rocket if any were used.

Aerospace 3 Aerospace Display (SF 50131)

Prepare a display related to the aerospace project which does not fit in the model rocketry class. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Aerospace 4 Model Rocketry (SF 50130)

Exhibit one model rocket assembled or made by the member. The exhibit will be a static display. The model rocket should be in good flying condition. DO NOT include the rocket engine with your exhibit. The rockets will not be launched. Attach the printed directions for construction of the rocket if any were used.

Aerospace 4 Aerospace Display (SF 50131)

Prepare a display related to the aerospace project which does not fit in the model rocketry class. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Aerospace Ready4Life Challenge (SF 50133)

Open to 11- to 18-year-olds enrolled in any Aerospace project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Aerospace Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost.

Total time spent on the build must be documented in your build log. In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

Bicycle 1

Exhibitors will **draw three situations from a bag** that relate to activities from Level 1 and discuss/explain all three with the judge. Situations may include: Selecting bicycle safety equipment; Demonstrate how to fit a helmet; Identify bike parts and their function; Selecting the right size bike; How to check bicycle tires, brakes and chains; Recognizing traffic signs and their meaning; General discussion of bicycling hazards; and Items to consider when planning a bike trip.

Bicycle 2

Exhibitors will **draw three situations from a bag** that relate to activities from Level 2 and discuss/explain all three with the judge. Situations may include: Factors to consider when choosing a bike; Comparing tire pressure, valve type and tread; Steps in fixing a flat tire; Steps to follow when cleaning, lubricating and replacing a bike chain; Evaluating the braking system on a bicycle; Factors to consider when mapping out a bike route; Rules for smart bike riding; and Planning a menu for an all-day bike ride.

Bicycle Ready4Life Challenge (not eligible for state fair)

Open to 11- to 18-year-olds enrolled in any Bicycle project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

BICYCLE (not eligible for state fair)

Bicycle Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

CHILD DEVELOPMENT

Each county may submit 1 entry from 50141

Exhibit one of the following class options

(New) Child Development 1: Infants and Toddlers

Prepare a display focusing on any activity related to the child development project. Demonstrate the skills and knowledge you have gained through the child development project you studied. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects. Exhibit must include printed or electronic version of at least three completed activities from the manual.

Child Care 1: Infants and Toddlers Prepare a display focusing on a topic related to child care of this age group such as selecting age appropriate activities, explaining child behavior, and/or recognizing safety concerns. Demonstrate the skills and knowledge you have gained through the child development project you studied. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects. Exhibit must include printed or electronic version of at least three completed activities from the manual.

Child Development Ready4Life Challenge (SF 50142)

Open to 11- to 18-year-olds enrolled in the Child Development project

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Child Development Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogramed to perform a different function other than what it was designed to do)
- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

CIVIC ENGAGEMENT -Each county may submit 2 entries total from classes 50145, 50146, 50147; and 1 entry from 50149. **Due to space restrictions, exhibits are limited to 2' 6" wide and 15" deep.**

Civic Engagement 1 (SF 50145)

Exhibit a display illustrating one of the following options: 1) personal information about yourself – who you are, things you like to do, things you are good at, your favorites; 2) your feelings and how you handle these feelings; 3) your family, their responsibilities, how you work together; **OR** 4) the Family Pedigree that may include family group pages. **Due to space restrictions, exhibits are limited to 2' 6" wide and 15" deep.**

Civic Engagement 2 (SF 50146)

Exhibit a display illustrating one of the following options: 1) your neighborhood; 2) how you were a good neighbor or led a service project for your community; **OR** 3) a Citizenship Challenge that you helped organize and lead (see the project book for details). **Due to space restrictions, exhibits are limited to 2' 6" wide and 15" deep.**

Civic Engagement 3 (SF 50147)

Exhibit a display illustrating one of the activities that you completed within your project as it relates to one of the following categories in the manual: 1) Government; 2) Business and Industry; 3) Transportation, Communication & Utilities; 4) Culture & Heritage; 5) Natural Resources & Environment; 6) Education; 7) Organizations within your community; 8) Tourism; **OR** 9) Support Systems within your community. **Due to space restrictions, exhibits are limited to 2' 6" wide and 15" deep.**

Civic Engagement Ready4Life Challenge (SF 50149)

Open to 11- to 18-year-olds enrolled in any Citizenship project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Civic Engagement Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

Service Learning 1 (not eligible for state fair)

Exhibit a binder portfolio to reflect what the exhibitor accomplished in the four steps of service learning. If exhibitor has been enrolled in project for multiple years, the binder portfolio should include previous years' work. Use of page protectors is recommended.

Service Learning 2 (not eligible for state fair)

Exhibit a binder portfolio to reflect what the exhibitor accomplished in the four steps of service learning. If the exhibitor has been enrolled in the project for multiple years (including Service Learning 1), the binder portfolio should include the previous years' work. Use of page protectors is recommended.

Service Learning 3 (not eligible for state fair)

Exhibit a binder portfolio to reflect what the exhibitor accomplished in the four steps of service learning. If the exhibitor has been enrolled in the project for multiple years (including Service Learning 1 & 2), the binder portfolio should include the previous years' work. Use of page protectors is recommended.

CLOTHING & TEXTILES

Each county may submit 3 STEAM entries total from 50151 a-c, 50152 a-c, 50153 a-c; 2 shopping entries from 50154, 50155, 50156; and 1 Ready4Life entry from 50157.

All exhibits entered in the clothing and textiles area will be judged based on their construction and fit (if applicable). Exhibitors bringing garments should not wear their garments when they arrive for judging. The garment will be reviewed by the judges for construction first. Exhibitors will be asked to change into the garment as the second step of the judging process. If the garment was constructed for another individual, that individual must be present to wear the garment for the judge. (Only the exhibitor who made the garment is eligible for ribbon and premium.) Construction and appearance will both be considered during judging. If a pattern was used to make the item, the pattern instructions, either written or electronic, are to be included with the exhibit. Exhibit tags should be attached to the garment, not to the hanger.

Members wishing to exhibit knitted items should enroll in Visual Arts Fiber (if original) or Heritage Arts (if made from a pattern). Members who enroll in Clothing & Textiles with the intent of pursuing quilting can exhibit in the non-clothing exhibit category in STEAM Clothing 1—FUNdamentals. Quilts exhibited in the Clothing & Textiles area will be judged using a rubric that evaluates the sewing skills and construction of the item. All work on the quilt **MUST** be completed by the 4-H member. You cannot exhibit a quilt that was quilted by someone else. Quilts can be hand OR machine quilted as long as ALL work is completed by the exhibitor.

CLOTHING: STEAM

STEAM Clothing 1 – FUNdamentals (SF 50151a, 50151b, 50151c)

Exhibit one of the following in either the Non-Sewn, Sewn Non-Clothing, or Sewn Clothing exhibit divisions:

Non-Sewn Exhibits (SF 50151a) Exhibit one of the following:

Clothing Portfolio – Complete at least three different samples/activities from Chapter 2 and/or Chapter 3 of the project manual. Examples of samples you might include: How Two Magically Become One, pages 85-86; No Fear of Fray, pages 93-95; Two Sides of the Moon, pages 97-99; On the Flip Side, pages 101-104; Basic Hand Sewing Skills, pages 106-108. The Portfolio should be placed in an 8 ½ x 11, 3 ring binder. Include an appropriate cover, dividers, and table of contents. NOTE – additional pages can be added each year but must be dated with the year. See pages 9-10 of project manual for portfolio formatting.

- Fabric Textile Scrapbook – Must include at least 5 different textile samples. Use Textile Information Cards template on page 41 in project manual to identify fabric swatches. Completed textile cards should be placed in an 8 ½ x 11, 3-ring binder. Include an appropriate cover. See project manual, pages 42-74, for fabric options and fabric science experiments.
- What's the Difference - What's the Price Point – Exhibit may include a notebook, poster, small display sharing a project comparison and price point. See activity, pages 118-120. Exhibit should include **PHOTOS**; NO actual PILLOWS.
- *Beginning Sewing Exhibits – exhibits in this class must be made from medium weight woven fabrics that will sew and press smoothly, flannel/fleece is acceptable. Solid color fabrics or those having an overall print are acceptable. NO PLAIDS, STRIPES, NAPPED or JERSEY KNIT. Patterns should be simple WITHOUT DARTS, SET-IN SLEEVES, and COLLARS. Raglan and loose flowing sleeves are acceptable.*

Sewn Non-Clothing Exhibits (SF 50151b) Exhibit one of the following:

- Pillowcase
- Simple Pillow – no larger than 18" x 18"
- Bag/Purse – no zippers or button holes
- Other non-clothing item using skills learned in project manual

Sewn Clothing Exhibits (SF 50151c) Exhibit one of the following:

- Simple top
- Simple pants, shorts, or skirt – no zipper or button holes
- Simple Dress – no zipper or button holes
- Other – other wearable item using skills learned in project manual (apron, vest, etc.)

STEAM Clothing 2 – Simply Sewing: (SF 50152a, 50152b, 50152c)

Exhibit one of the following in either the Non-Sewn, Sewn Non-Clothing, or Sewn Clothing exhibit divisions:

Non-Sewn Exhibits (SF 50152a) Exhibit one of the following:

Clothing Portfolio – Complete at least four different samples/activities from Chapters 2, 3 AND/OR 4 of the project manual. The Portfolio should be placed in an 8 ½ x 11, 3 ring binder. Include an appropriate cover, dividers, and table of contents. NOTE – this can be a continuation of a Portfolio created in STEAM Clothing 1. Additional pages can be added each year but must be dated with the year created. See project manual, pages 9-11 for portfolio formatting.

- **Expanded Textile Science Scrapbook** – Must include at least 10 different textile samples. Use Textile Information Cards template on page 39 in project manual to identify fabric swatches. Completed textile cards should be placed in an 8 ½ x 11, 3 ring binder. Include an appropriate cover. See Project, pages 40-82 for fabric science experiments.
- **Design Basics – Understanding Design Principles** – Exhibit should include a learning experience that demonstrates the design principles and elements involved when selecting fabric for clothing and accessories. See project manual, pages 17-20 for design suggestions.
- **Entrepreneurial Sewing** – Exhibit should highlight items you made for sale online. Create an exhibit that displays products you made and posted online. Refer to the project manual, pages 161-167 for information on how to analyze the cost of similar purchased items to determine pricing of your products. The exhibit may be a notebook, poster or small display.

Sewn Non-Clothing Exhibits (SF 50152b) Exhibit one of the following:

Recycled Clothing Accessory – Create a clothing accessory made from a used item. The item must be changed in some way in the redesign process. The finished accessory must reflect at least one skill learned in the project and exhibitor should be able to identify the skill used. A before picture and a description of the redesign process must accompany the exhibit. Clothing accessory may include: hat, bag, scarf, belt, etc.

Non-clothing item OR Clothing Accessory – Create a clothing accessory using at least one skill learned in this project. Exhibitor should be able to identify the skill used.

Sewn Clothing Exhibits (SF 50152c) Exhibit one of the following:

Recycled Clothing – Create a garment from used textile based items. The original used item must be redesigned (not just embellished or decorated) in some way to create a new wearable piece of clothing. The finished garment must reflect at least one skill learned in this project and exhibitor should be able to identify the skill used. A before picture and a description of the redesign process must accompany the exhibit.

Constructed garment – Any garment with facings or curves. Should use at least one skill learned in this project and exhibitor should be able to identify the skills used. Garment should be appropriate for the age and experience of the member.

STEAM Clothing 3 – A Stitch Further: (SF 50153a, 50153b, 50153c)

Exhibit one of the following in either the Non-Sewn, Sewn Non-Clothing, or Sewn Clothing exhibit divisions:

Non-sewn Exhibits (SF 50153a) Exhibit one of the following:

- **Clothing Portfolio** – Complete at least four different samples/activities from Chapters 2, 3 AND/OR 4 of the project manual. The Portfolio should be placed in an 8 ½ x 11, 3 ring binder. Include an appropriate cover, dividers, and table of contents. NOTE – this can be a continuation of a Portfolio created in STEAM Clothing 1 and/or STEM Clothing 2. Additional pages can be added each year but must be dated with the year created. See project manual, pages 11-13 for portfolio formatting.
- **Expanded Textile Science Scrapbook** - Must include at least 10 different textile samples. Use Textile Information Cards template on page 29 in project manual to identify fabric swatches. Completed textile cards should be placed in an 8 ½ x 11, 3 ring binder. Include an appropriate cover. See Project, pages 39-52 for fabric science experiments.
- **Advanced Entrepreneurial Sewing** – Using knowledge gained in project manual, Chapter 5, display one sample product with a business plan that includes a business ID and logo. The Exhibit may be a notebook, poster or small display.

Sewn Non-Clothing Exhibit (SF 50153b) Exhibit one of the following:

- Recycled Clothing Accessory – Create a clothing accessory made from a used item. The item must be changed in some way in the redesign process. The finished accessory must reflect at least one skill learned in the project and exhibitor should be able to identify the skill used. A before picture and a description of the redesign process must accompany the exhibit.
- Non-clothing item OR Clothing Accessory – Create a clothing accessory using at least one skill learned in this project. Exhibitor should be able to identify the skill used.

Sewn Clothing Exhibit (SF 50153c) Exhibit one of the following:

- Recycled Clothing – Create a garment from used textile based items. The original used item must be redesigned (not just embellished or decorated) in some way to create a new wearable piece of clothing. The finished garment must reflect at least one skill learned in this project and exhibitor should be able to identify the skill used. A before picture and a description of the redesign process must accompany the exhibit.
- Constructed garment – Any garment constructed by the member which is appropriate for the age and experience of the exhibitor. Should use at least one skill learned in this project and exhibitor should be able to identify the skills used. Possible examples are wool garment, dress or jacket with set in sleeves and zipper or buttons and button holes, suites evening gown or sport outfit.

CLOTHING: SHOPPING

Exhibit one of the following options that align with the Shopping in Style level. If a garment is part of the 4-H exhibit, exhibitors should put the garment on PRIOR to their judging time.

Shopping in Style: Members are encouraged to spend more than one year involved in this project so they have time to learn what clothing styles look best on them while they also gain skills in building a versatile wardrobe and staying within their budget. Each year enrolled in Shopping should build on previous year's learning experience.

Shopping in Style (SF 50154)

Beginning – Choose one of the following activities from Unit 1 or Unit 2 of the project book

- Exhibit should consist of a garment that reflects your personal style along with a poster or report that 1) explains how this garment reflects your style and how it influences what others think of you; **OR** 2) how your personal style either aligns or contradicts what is considered to be “in style” today. **OR**
- Exhibit should include a garment you purchased along with a poster or report that explains or illustrates how this garment is either 1) a modern version of a fad or fashion from an earlier decade; **OR** 2) how this garment reflects a different ethnic or cultural influence. Exhibit should include garment you purchased along with a poster or report that provides 1) a body shape discussion and how body shape influences clothing selections; **OR** 2) a color discussion that provides an overview of how different colors complement different hair colors and skin tones and how that influenced garment selection. Poster or report may include pictures from magazines, the internet or actual photos of garments. **OR**
- Exhibit should include garment you purchased along with a poster or report that 1) explains how this garment uses the principles of design lines to create an illusion to alter appearance; **OR** 2) explains how color and texture of fabrics can complement or enhance appearance. Poster or report may include pictures from magazines, the internet, or actual photos of garments.

Intermediate – Choose one of the following activities from Unit 3 or Unit 4 of the project book (SF 50155)

- Exhibit should include two clothing items that were previously a part of your wardrobe that still fit but you don't wear anymore and pair them with something new to make them wearable again. Also include a report that explains why the garment was not being worn and what you did to transform it into a wearable garment again. **OR**
- Exhibit should include at least five pieces of clothing that exhibitor can mix and match to create multiple outfits. Include a poster or report that includes a clothing inventory AND describes what you have learned by completing this activity. **OR**
- Exhibit should include garment you purchased along with a poster or report that 1) includes a wardrobe inventory which indicates why you selected the garment you did, clothing budget, and cost of garment; **OR** 2) explains how advertising influences clothing purchases making a distinction between wants and needs; and how the purchase of this garment compliments and/or extends your wardrobe. **OR**

- Exhibit should include garment you purchased along with a poster or report that 1) describes a cost comparison of this item completed by the exhibitor when purchasing the garment; should include variety of shopping options and/or price tracking at stores over a period of time; **OR** 2) provides a quality comparison rating the specific clothing item purchased based on care, construction, cost and unique features; should include construction quality details, design features that influenced selection, cost per wearing, and garment care.

Advanced – Choose one of the following activities from Unit 5 or Unit 6 of the project book (SF 50156)

- Exhibit should include garment you purchased along with a poster or report that summarizes care requirements not only for this garment but also for garments made of other natural and synthetic fibers; exhibit should also include a care cost analysis for garments of different fibers. **OR**
- Exhibit should include garment you purchased which you have repaired or altered along with a poster or report that provides a clothing inventory list which includes cost savings for repaired items as compared to purchasing replacement garments.
- Exhibit should include multiple garments you purchased along with a poster or report that provides plans and commentary for a fashion show that that would capture the attention of an audience. Fashion show plans should identify target audience, include show venue, purpose of the show, and logistical plan for the fashion show. This should also include a financial plan. Exhibitor should be prepared to demonstrate modeling skills.

Sewing & Textiles Ready4Life Challenge (SF 50157)

Open to 11- to 18-year-olds enrolled in any Sewing & Textiles project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Clothing Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

CLOTHING: SHOPPING Exhibit one of the following options that align with the Shopping in Style level. If a garment is part of the 4-H exhibit, exhibitors should put the garment on PRIOR to their judging time.

Shopping in Style: Members are encouraged to spend more than one year involved in this project so they have time to learn what clothing styles look best on them while they also gain skills in building a versatile wardrobe and staying within their budget. Each year enrolled in Shopping should build on previous year's learning experience.

Shopping in Style: (SF 50154)

Beginning – Choose one of the following activities from Unit 1 or Unit 2 of the project book

- Exhibit should consist of a garment that reflects your personal style along with a poster or report that 1) explains how this garment reflects your style and how it influences what others think of you; **OR** 2) how your personal style either aligns or contradicts what is considered to be “in style” today. **OR**
- Exhibit should include a garment you purchased along with a poster or report that explains or illustrates how this garment is either 1) a modern version of a fad or fashion from an earlier decade; **OR** 2) how this garment reflects a different ethnic or cultural influence. Exhibit should include garment you purchased along with a poster or report that provides 1) a body shape discussion and how body shape influences clothing selections; **OR** 2) a color discussion that provides an overview of how different colors complement different hair colors and skin tones and how that influenced garment selection. Poster or report may include pictures from magazines, the internet or actual photos of garments. **OR**
- Exhibit should include garment you purchased along with a poster or report that 1) explains how this garment uses the principles of design lines to create an illusion to alter appearance; **OR** 2) explains how color and texture of fabrics can complement or enhance appearance. Poster or report may include pictures from magazines, the internet, or actual photos of garments.

Intermediate – Choose one of the following activities from Unit 3 or Unit 4 of the project book (SF 50155)

- Exhibit should include two clothing items that were previously a part of your wardrobe that still fit but you don't wear anymore and pair them with something new to make them wearable again. Also include a report that explains why the garment was not being worn and what you did to transform it into a wearable garment again. **OR**
- Exhibit should include at least five pieces of clothing that exhibitor can mix and match to create multiple outfits. Include a poster or report that includes a clothing inventory AND describes what you have learned by completing this activity. **OR**
- Exhibit should include garment you purchased along with a poster or report that 1) includes a wardrobe inventory which indicates why you selected the garment you did, clothing budget, and cost of garment; **OR** 2) explains how advertising influences clothing purchases making a distinction between wants and needs; and how the purchase of this garment compliments and/or extends your wardrobe. **OR**
- Exhibit should include garment you purchased along with a poster or report that 1) describes a cost comparison of this item completed by the exhibitor when purchasing the garment; should include variety of shopping options and/or price tracking at stores over a period of time; **OR** 2) provides a quality comparison rating the specific clothing item purchased based on care, construction, cost and unique features; should include construction quality details, design features that influenced selection, cost per wearing, and garment care.

Advanced – Choose one of the following activities from Unit 5 or Unit 6 of the project book (SF 50156)

- Exhibit should include garment you purchased along with a poster or report that summarizes care requirements not only for this garment but also for garments made of other natural and synthetic fibers; exhibit should also include a care cost analysis for garments of different fibers. **OR**
- Exhibit should include garment you purchased which you have repaired or altered along with a poster or report that provides a clothing inventory list which includes cost savings for repaired items as compared to purchasing replacement garments.
- Exhibit should include multiple garments you purchased along with a poster or report that provides plans and commentary for a fashion show that that would capture the attention of an audience. Fashion show plans should identify target audience, include show venue, purpose of the show, and logistical plan for the fashion show. This should also include a financial plan. Exhibitor should be prepared to demonstrate modeling skills.

COLLEGE & CAREER READINESS

Each county may submit 1 entry from 50365; and 1 entry from 50366.

Build Your Future (SF 50365)

Develop a Career portfolio which includes the items listed below. Members are encouraged to spend more than one year involved in this project so they have time to thoroughly explore the learning modules and develop a greater understanding of planning and preparing for their future and develop a comprehensive career planning portfolio. The original OR photocopies of the completed activities from the project manual should be included in the portfolio. Each year enrolled in the project should build on previous year's learning experiences.

First Year – Complete a minimum of Activities 1-4 from the Build Your Future project manual which includes: Skills...Choices...Careers; Making Career Connections; Build Your Future Through Portfolios; and Education Pay\$.

Second Year – Complete a minimum of Activities 5-7 from the Build Your Future project manual which includes: Career FUNds; Turn Your 4-H Passion Into Profit; and Pounding the Pavement.

Third Year – Complete a minimum of Activities 8-9 from the Build Your Future project manual which includes: Putting the Pieces Together: Goals for the Future; and Pathways to Success.

College & Career Ready4Life Challenge (SF 50366)

Open to 11- to 18-year-olds enrolled in the College & Career project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

College & Career Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

COMMUNICATIONS

Each county may submit 2 entries total from 50367, 50368, 50369; and 1 entry from 50370.

Communications 1 (SF 50368)

For 1st year enrolled in project: Exhibit a binder portfolio showcasing at least three activities from the project manual. Show basic activities and anything that extended lessons. For 2nd and 3rd years in project: Include everything from earlier years' work and add section showcasing at least four additional activities per year.

Communications 2 (SF 50368)

For 1st year enrolled in project: Exhibit a binder portfolio showcasing at least three activities from the project manual. Show basic activities and anything that extended lessons. For 2nd and 3rd years in project: Include everything from earlier years' work and add section showcasing at least four additional activities per year.

Communications 3 (SF 50368)

For 1st year enrolled in project: Exhibit a binder portfolio showcasing at least three activities from the project manual. Show basic activities and anything that extended lessons. For 2nd and 3rd years in project: Include everything from earlier years' work and add section showcasing at least four additional activities per year.

Creative Writing (SF 50367)

To provide the best learning experience, it is suggested that counties receive submissions in this class prior to the exhibition date to allow a judge adequate time to read the submissions and provide meaningful review. Each member may submit only one entry per class. Each entry is to be typewritten on 8 ½ x 11 paper and include exhibitor's name. Entries must be original and **written for the 4-H project**. Stories should be double-spaced. Poems may be single-spaced.

- **Rhymed Poetry** – An interpretation of a subject in rhymed verse. Submit a collection of three poems.
- **Free Style Poetry**– An interpretation of a subject in unrhymed verse. Submit a collection of three poems.
- **Short Story**– A fiction piece comprised of three basic elements: a theme, a plot and characters. Submit one story, maximum length –2,000 words.
- **Essay**– A short nonfiction composition in which a theme is developed or an idea is expressed. Submit one essay, maximum length –500 words.
- **Feature Story** -- Nonfiction human-interest story judged on interest to readers, writing style, readability, and thoroughness of coverage. Submit one story, maximum length –1,000 words.

Journalism (SF 50369)

Exhibit a binder portfolio showing the results of the appropriate year's activities noted below:

- **Year 1:** Accomplishments of a minimum of 5, 2-star activities from Part 1, answering all of the questions in the activities.
- **Year 2:** Results of doing a minimum of 5, 2-star activities in Part 2, answering all the questions in the activities.
- **Year 3:** Results of doing a minimum of 5, 3-star activities from Parts 1 and 2. One of the activities must include writing an advance story, a follow-up story, or a feature story.
- **Year 4:** Results of doing at least 2, 2-star activities and 3, 3-star activities from Part 3. If the activities include making an audio or videotape, State Fair will provide a way for the judge to view or listen to it.

Communications Ready4Life Challenge (SF 50370)

Open to 11- to 18-year-olds enrolled in any Communications project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Communications Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogramed to perform a different function other than what it was designed to do)
- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

COMMUNICATIONS: PUBLIC PRESENTATIONS March 7, 2020

Enrollment in the Public Presentations project is required to participate in this section. No live animals are allowed in speeches. Counties may advance a total of three entries from any category to the state contest.

Formal Speech | Self-written | Notes Allowed | No props | Individual | 4-8 minutes

Formal Speeches share the presenter's own unique view and are intended to motivate, persuade, or inform an audience and may include a call to action. Youth deliver a speech on any topic they wish (Original Oratory), or choose one of these four topics on which to speak (Topical Response):

- Welcome to the Digital Age
- What is My Connection to the Global Community?
- Power: Who Has It, Who Doesn't, and Does It Matter?
- If I Could See tomorrow...

Illustrated Speech | Self-written | Notes allowed | Illustrations Required | Individual | 4-8 minutes

Illustrated Speeches may be used to inform, persuade, or motivate the audience while using a visual aid. Visual aids may be two dimensional, three-dimensional, or digital. Youth may include audience participation. Digital visual aids must be stored on a USB flash drive. Illustrated speeches may be:

- How-to demonstrations which show the audience how to do something.
- Object lessons which use objects as metaphors to share a message.
- Educational models where drawings or diagrams help explain a topic.

Original Works | Self-written | Notes allowed | Props and Costumes Allowed | Individual or 2-Person Team | Manuscripts sent in Advance | 4-8 minutes

Original works must be written entirely by the presenter. It may be presented as an individual or a two-person team entry. Manuscripts must be sent in advance to the contest. Presentations may be designed for TV, radio, or online media and must be presented live. The types of entries could include:

- Prose and Short Stories
- Poetry
- Broadcast Media Program
- Theatrical
- Combined Program: Combine any number of the above elements along with other creative presentation forms

Oral Interpretation | Published work | Props and Costumes Allowed | Individual or 2-Person Team | Manuscripts sent in Advance | 4-8 minutes

Presentations in Oral Interpretation must be published works, and manuscripts or transcripts must be submitted prior to the event. They may be presented as an individual or a two-person team entry. The types of entries could include:

- Prose and Short Stories
- Poetry
- Theatrical Interpretation
- Published Speech Recitation: Excerpt from a spoken presentation delivered by a public figure, such as Winston Churchill, Dr. Martin Luther King, Jr., or Maya Angelou
- Combined Program: Combine any number of the above elements along with other creative presentation forms

COMPUTER SCIENCE

Each county may submit 3 entries total from 50159, 50160, 50161, 50162; and 1 entry from 50164.

Exhibitors may bring computer equipment for demonstration purposes. **Computers will not be furnished.** Internet connections are not available for use by exhibitors. Any member found to be using computer software in a manner that infringes on copyright laws will be disqualified.

Beginning Visual Programming (not eligible for state fair)

Open to youth in Computer Science Visual Based Programming

Exhibit a simple program using Scratch (or other simple graphic programming language). The program should include 8 different commands including looping and getting input from the keyboard and mouse. All exhibits must include something visual, such as a poster or printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Intermediate Visual Programming (SF 50159)

Open to youth in Computer Science Visual Based Programming

Exhibit a program using Scratch (or other simple graphic programming) that you have downloaded from the internet and modified. Compare the two programs and demonstrate the changes you made to the original program; **OR** create an animated storybook using Scratch (or other simple graphical programming language). All exhibits must include something visual, such as a poster or printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Advance Visual Programming (SF 50160)

Open to youth in Computer Science Visual Based Programming

Exhibit a video game you have created in Scratch (or other simple graphic programming). All exhibits must include something visual, such as a poster or printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Website Design: (SF 50161)

Open to youth in Computer Science Visual or Text Based Programming

Exhibit an original website that you have designed. Internet access will not be provided, so exhibitors must supply their own internet hot spot or the website must be hosted on the exhibitor's computer). All exhibits must include something visual, such as a poster or printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Computer Open Source / Innovation CS (SF 50162)

Open to youth enrolled in Computer Science Text-Based Programming or robotics project).

Demonstrate the skills and knowledge you have gained through the Computer project. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. Exhibits in this class may also demonstrate successful application of open source (publicly available) computing software and/or hardware, such as Raspberry Pi and Linux, to accomplish a task. All exhibits must include something visual, such as a poster or printed copy of a digital presentation or programming flowchart, which will remain on display during the exhibition. Exhibits in this area will be judged on the computer science programming. Youth enrolled in a robotics project should choose this class if you want the exhibit to be judged on the programming of the robot. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Computer Science Ready4Life Challenge (SF 50164)

Open to 11- to 18-year-olds enrolled in any Computer project

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Computer Science Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

CONSUMER EDUCATION

Each county may submit 2 entries total from 50168, 50169; and 1 entry from 50167.

Entrepreneurship: Be the E! (not eligible for state fair)

Exhibit a binder portfolio or display that includes the results of at least two completed activities from each year exhibitor has been enrolled in the project. Completed activities from previous years should be included.

My Financial Future 1 Beginner (SF 50168)

Develop a Financial Planning portfolio which includes the items listed below. This project can be completed all in one year; or a member may take several years to explore each of the activities and develop a more detailed financial plan. The original OR photocopies of the completed activities from the project manual should be included in the portfolio. Each year enrolled in the project should build on previous year experiences.

First Year – Complete a minimum of Activities 1-6 from the My Financial Future – Beginner project manual which includes: Who Needs This?; Let's get SMART; Bringing Home the Bacon; Managing Your Money Flow; My Money Personality; and Money Decisions.

Second Year and Beyond – Complete a minimum of Activities 7-11 from the My Financial Future – Beginner project manual which includes: Banking your \$\$\$\$; Charging it Up; Check it Out; Better than a Piggy Bank!; and My Work; My Future.

My Financial Future 2 Advanced (SF 50169)

Building on your previous work in My Financial Future – Beginner project, continue adding to your Financial Planning portfolio which includes the items listed below. Members are encouraged to spend more than one year involved in this project so they have time to thoroughly explore the learning modules and develop a greater understanding of financial literacy, planning for their future, and develop a comprehensive career and financial planning portfolio. The original OR photocopies of the completed activities from the project manual should be included in the portfolio. Each year enrolled in the project should build on previous year's learning experiences.

First Year – Complete a minimum of two activities from Module 1: Earning Income and Career Planning and Module 2: Organizing Your Flow.

Second Year – Complete all activities not previously completed in Module 1: Earning Income and Career Planning and Module 2: Organizing Your Flow; **AND** a minimum of two the activities from Module 3: Working with Banks and Credit Unions: Bank on It and Module 4: Making Your \$ Work 4 U.

Third Year and beyond – Complete all activities not previously completed in Module 3: Working with Banks and Credit Unions: Bank on It and Module 4: Making Your \$ Work 4 U; **AND** a minimum of two activities from Module 5: Credit and Consumer Breadcrumbs.

Consumer Ed Ready4Life Challenge (SF 50167)

Open to 11- to 18-year-olds enrolled in any Consumer Education project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Consumer Ed Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

CROPS

Each county may submit 3 entries total from 50170, 50171, 50172, 50173; and 1 entry from 50175.

Soybeans (SF 50170)

Exhibit five fresh plants (include root system that is washed) that are representative of member's 4-H project field; **OR** exhibit an experimental or educational project related to one experience from your project. Include explanation of the project in a report for public understanding. Include the member's crop records with the exhibit, such as the 4-H Crop record found online @ 4-H.illinois.edu, an FFA crops record, or similar information.

Corn (SF 50171)

Exhibit two fresh plants of field corn (include root system that is washed), that is representative of member's 4-H project field; **OR** exhibit an experimental or educational project related to one experience from your project. Include explanation of the project in a report for public understanding. *Sweet corn should be exhibited in Vegetable Gardening unless being raised under commercial contract by the exhibitor.* Include the member's crop records with the exhibit, such as the 4-H Crop record found online @ 4-H.illinois.edu, an FFA crops record, or similar information.

Small Grains (SF 50172)

Exhibit one gallon of the current year's crop of oats, wheat, rye, or barley that is representative of the member's 4-H project field; **OR** exhibit an experimental or educational project related to one experience from your project. Include explanation of the project in a report for public understanding. Include the member's crop records with the exhibit, such as the 4-H Crop record found online @ 4-H.illinois.edu, an FFA crops record, or similar information.

Crops Innovation Class (SF 50173)

Open to youth enrolled in any Crops project

Demonstrate the skills and knowledge you have gained through the Crops project. This could be related to, but not limited to crop production, crop utilization or topics of interest to the member related to agronomy. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Crops Ready4Life Challenge (SF 50175)

Open to 11- to 18-year-olds enrolled in any Crops project

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Crops Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

ELECTRICITY

Each county may submit 3 entries total from 50177, 50178, 50179; and 1 entry from 50181.

Electricity 1 (SF 50177)

(May only be battery-powered projects using battery components and wiring). Exhibit a momentary switch, simple switch, basic circuit, electromagnet, galvanometer, **OR** an electric motor. All projects must include a report explaining how the project was constructed and the principles demonstrated. Recommendations can be found **on the website**. Projects using paper clips, cardboard, thumbtacks, & brads are not eligible for state fair exhibits in electricity. Members wishing to exhibit these types of projects should consider exhibiting in Junkdrawer Robotics 1 or 2.

Electricity 2 (SF 50178)

(May only be battery-powered projects using battery components and wiring) Exhibit a circuit board demonstrating parallel and series switches, including a circuit diagram; 3-way or 4-way switch circuit using DC/battery; **OR** a basic electrical device (examples: rocket launcher, burglar alarm, etc). All projects must include a report explaining how the project was constructed and the principles demonstrated. Recommendations can be found **on the website**. Projects using paper clips, cardboard, thumbtacks, & brads are not eligible for state fair exhibits in electricity. Members wishing to exhibit these types of projects should consider exhibiting in Junkdrawer Robotics 1 or 2.

Electricity 3 (SF 50179)

Exhibit a 120V lighting fixture or other appliance which uses a switch; **OR** two electrical household circuits using 120V materials to comply with National Electrical Code, one with a simple on/off switch to control bulb, and one using 3-way switches to control light from two locations; **OR** other project which demonstrates principles in the Wired for Power book. All electricity projects must include a report, explaining how the project was constructed, and principles for its operation. Recommendations can be found on the website.

Electricity 4 (not eligible for state fair)

Exhibit any electronic or solid state appliance. Exhibitor must be able to explain how the project was constructed, how it is to be used and how it works. When project is being constructed, general safety and workmanship should be considered.

Electricity Ready4Life Challenge: (SF 50181)

Open to 11- to 18-year-olds enrolled in any Electricity project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Electricity Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

ENTOMOLOGY GENERAL

Each county may submit 2 entries total from 50183, 50184, 50185, 50186; 1 entry from Class 50187.

Size and number of exhibit cases should relate appropriately to the number of insects being displayed for a specified class. Cases should be no deeper than 4". Exhibitors should note that Entomology exhibits may be placed UPRIGHT for display.

Entomology 1 (SF 50183)

Exhibit 15 or more species representing four or more orders. Collection must be accurately labeled. **Exhibitors must also include the Entomology 1 project manual, *Teaming With Insects 1*, with at least one completed activity for each year enrolled. The project manual must be included.** Rules for pinning and labeling insects are available from your local Extension office.

Entomology 2 (SF 50184)

Exhibit 30 or more species representing eight or more orders. Collection must be accurately labeled. Exhibitors must also include the Entomology 2 project manual, *Teaming With Insects 2*, with at least one completed activity for each year enrolled. The project manual must be included. Rules for pinning and labeling insects are available from your local Extension office.

Entomology 3 (SF 50185)

Exhibit 60 or more species representing twelve or more orders. Collection must be accurately labeled. Exhibitors must also include the Entomology 3 project manual, *Teaming With Insects 3*, with at least one completed activity for each year enrolled. The project manual must be included. Rules for pinning and labeling insects are available from your local Extension office.

Entomology Display (SF 50186)

Open to youth enrolled in Entomology 1, Entomology 2 or Entomology 3

Exhibit any activity or display related to Entomology that does not fit into Entomology Classes 1, 2 or 3 above. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Entomology Ready4Life Challenge (SF 50187)

Open to 11- to 18-year-olds enrolled in any Entomology project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Entomology Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

ENTOMOLOGY BEEKEEPING

Each county may send 2 entries total from classes 50188, 50189, 50190; and 1 entry from 50191.

Create an exhibit that shows the public what you learned in the beekeeping project this year. Note: No bee hives may be exhibited. (Honey moisture content will be measured.) Fill level: the honey should be filled to the jar shoulder, not over, nor under. Chunk honey should go in a wide-mouth jar, preferably one specially made for chunk honey (see beekeeping catalogs). Be careful to distinguish “chunk honey” (comb in jar) from “cut comb” (comb only in plastic box). *Honey exhibited (including chunk, cut comb, and sections) must be collected since the previous year fair.*

Beekeeping 1 (SF 50188)

Exhibit an educational display for one (1) of the following:

- Flowers Used to Make Honey. Display pressed flowers from ten (10) different Illinois plants that bees use for making honey.
- Uses of Honey and Beeswax.
- Setting Up a Bee Hive.
- Safe Handling of Bees.
- Equipment needed by a Beekeeper.

Beekeeping 2 (SF 50189)

Exhibit one (1) of the following:

- Extracted Honey: Three (3) 1# jars, shown in glass, screw-top jars holding 1 # of honey each.
- Chunk honey (comb in jar): Three (3) 1# jars (wide-mouth glass jars).
- Cut-comb honey: Three (3) 1# boxes (boxes are usually 4 ½” x 4 ½”).
- Section honey: three (3) sections of comb honey (in basswood boxes or Ross rounds).
- Working with Honey Bees. Present a topic from your manual to teach fairgoers about working with honey bees. Use your knowledge and creativity to display this information on a poster or in a notebook.

Beekeeping 3 (SF 50190)

Exhibit three (3) of the five (5) kinds of honey listed below (#1-5) or prepare an educational display about honey bees or beekeeping.

- Extracted Honey: Three (3) 1# jars (glass)
- Chunk Honey (comb in a jar): Three (3) 1# jars (wide-mouth glass)
- Cut-comb Honey: Three (3) 1# boxes (boxes are usually 4 ½” x 4 ½” in size)
- Comb Honey- 3 sections (honey built by bees in frames of wood commonly called “sections” (boxes are usually 4 ½” x 4 ½” in size)
- Section honey: three (3) sections of comb honey (in basswood boxes or Ross rounds) or Prepare an educational display about honey bees or beekeeping.

Entomology Beekeeping Ready4Life Challenge (SF 50191)

Open to 11- to 18-year-olds enrolled in any Entomology project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Beekeeping Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogramed to perform a different function other than what it was designed to do)
- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that ⁷⁷

FAMILY HERITAGE

Each county may submit 1 entry from 50197; and 1 entry from 50199.

Family Heritage (SF 50197)

Prepare an exhibit of items, pictures, maps, charts, slides/tapes, drawings, illustrations, writings or displays that depict the heritage of the member's family or community or 4-H history. Please note: Exhibits are entered at 4-H's own risk. 4-H is not responsible for loss or damage to family heirloom items or any items in this division. Displays should not be larger than 22" x 28" wide. If the size needs to be a different size because the historical item is larger than 22"x28" please contact the superintendents for approval.

Family Heritage Ready4Life Challenge (SF 50199)

Open to 11- to 18-year-olds enrolled in any Entomology project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Family Heritage Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

FOODS & NUTRITION

Each county may submit 7 entries total from any of these food classes: 50200, 50201, 50202, 50203, 50204, 50206, 50208, 50211; and 1 entry from 50210.

4-H Cooking 101 (SF 50200)

Using the recipes included in the project manual, prepare an exhibit of 3 cereal marshmallow bars; **OR** ¼ of 8" square or round coffeecake; **OR** 3 cookies. No icing should be on any products. If you make changes to the recipe, bring a copy of the recipe with your changes. Bars, coffeecake, or cookies should be displayed on a disposable plate placed in a zip-sealing plastic bag. *In addition to your food exhibit*, complete the *What's on Your Plate? Activity* on pages 10-11 in the 4-H Cooking 101 project manual. Bring a document with printed pictures of your 3 or more plates and the answers to questions 1-7 to remain on display with your project. The words on the plates must be legible and clearly visible in the picture. Pictures, graphics or photos are acceptable.

4-H Cooking 201 (SF 50201)

Using the recipes included in the project manual, prepare an exhibit of 3 cheese muffins; **OR** 3 scones; **OR** ½ loaf (9" x 5") of basic nut bread. If you make changes to the recipe, bring a copy of the recipe with your changes. Bread, muffins, or scones should be displayed on a disposable plate placed in a zip-sealing plastic bag. *In addition to your food exhibit*, complete *Experiment with Meal Planning Activity* on page 91 in the 4-H Cooking 201 project manual. Bring either page 91 with your completed answers or a document with the answers to remain on display with your project along with a picture of the meal you prepared. You do **not** need to complete the Challenge Yourself section on page 91.

4-H Cooking 301 (SF 50202)

Using the recipes included in the project manual, prepare an exhibit of 3 dinner rolls; **OR** loaf of yeast bread; **OR** 1 tea ring; **OR** 3 sweet rolls; **OR** one layer of a Rich White Cake or Rich Chocolate Cake, top side up (*without frosting*). If icing is used on the tea ring or sweet rolls, the recipe for the icing must also come from the book. The yeast bread/roll dough may be prepared in a bread making machine; however prepared mixes are not permitted. If you make changes to the recipe, bring a copy of the recipe with your changes. Display exhibit on a disposable plate or pie tin and place in a zip-sealing plastic bag. *In addition to your food exhibit*, complete one of the six experiments: *Experiment with Flour* p. 33-34, *Experiment with Kneading* p. 35-36, *Experiment with Yeast* p. 37-38 or 39, *Experiment with Butter* p. 62-63 or *Experiment with Cheese* p. 104-105. Bring a document with a printed picture of your experiment and the answers to the experiment questions to remain on display with your project.

4-H Cooking 401 (SF 50203)

Using the recipes included in the project manual, prepare an exhibit of ¼ of a 15" x 10" loaf of focaccia bread (do not include dipping oil); **OR** one baked pie shell – traditional, oil, or whole wheat (no graham cracker); **OR** ¼ Golden Sponge Cake, top side up, without frosting; **OR** ½ loaf French Bread. If you make changes to the recipe, bring a copy of the recipe with your changes. Display exhibit on a disposable plate and place in a zip-sealing plastic bag. *In addition to your food exhibit*, pick one of the recipes from Cooking 401 that is not a choice for exhibit. Make the recipe and take a picture of the results. Bring a document with a printed picture of the food you made from the recipe and the answers to the following two questions: 1.) If you made this recipe again, what would you do differently? 2.) What did you learn that can help you in other ways besides preparing food?

Food Science 1 (SF 50204)

Prepare a display, digital presentation, or poster on one of the food science experiments from the manual that you completed. Share 1) the food science question you investigated; 2) process used to conduct the experiment; 3) results and observations; 4) what you learned; and 5) how you have applied this information. You must furnish any equipment you need for the exhibit. Internet service is not provided. All exhibits must include something visual, such as a printed copy of a digital presentation. Electronic equipment will only be used during your judging time and will not remain on display during the exhibit period.

Food Science 2 (SF 50204)

Prepare a display, digital presentation, or poster on one of the food science experiments from the manual that you completed. Share 1) the food science question you investigated; 2) process used to conduct the experiment; 3) results and observations; 4) what you learned; and 5) how you have applied this information. You must furnish any equipment you need for the exhibit. Internet service is not provided. All exhibits must include something visual, such as a printed copy of a digital presentation. Electronic equipment will only be used during your judging time and will not remain on display during the exhibit period.

Food Science 3 (SF 50204)

Prepare a display, digital presentation, or poster on one of the food science experiments from the manual that you completed. Share 1) the food science question you investigated; 2) process used to conduct the experiment; 3) results and observations; 4) what you learned; and 5) how you have applied this information. You must furnish any equipment you need for the exhibit. Internet service is not provided. All exhibits must include something visual, such as a printed copy of a digital presentation. Electronic equipment will only be used during your judging time and will not remain on display during the exhibit period.

Food Science 4 (SF 50204)

Prepare a display, digital presentation, or poster on one of the food science experiments from the manual that you completed. Share 1) the food science question you investigated; 2) process used to conduct the experiment; 3) results and observations; 4) what you learned; and 5) how you have applied this information. You must furnish any equipment you need for the exhibit. Internet service is not provided. All exhibits must include something visual, such as a printed copy of a digital presentation. Electronic equipment will only be used during your judging time and will not remain on display during the exhibit period.

Sports Nutrition (SF 50206)

Prepare a display, digital presentation, or poster on one of the activity chapters in the manual that you completed. The activity chapters are listed by page number in the table of contents. Your exhibit should include, at minimum, information on one physical fitness component and one food/recipe component from the activity chapter. The exhibit should include the project manual with the pages of the activity completed. You may also include live demonstration of physical activities. Do not bring food made using the recipes, but consider adding pictures of the completed recipes to your exhibit. You must furnish any equipment you need for the exhibit. Internet service is not provided. All exhibits must include something visual, such as a printed copy of a digital presentation. Electronic equipment will only be used during your judging time and will not remain on display during the exhibit period.

- Examples for Activity 1
- Example A: Make a video of yourself practicing flexibility, strength and endurance physical fitness activities and making pasta salad with different vegetable, pasta and dressing ideas. Bring a screen shot and brief description of your video to leave on display.
- Example B: Make a poster of pictures of flexibility, strength and endurance physical fitness activities and information on the results of making the spinach and mandarin orange salad. Include answers to the questions in the book.

Food Preservation (SF 50208)

Prepare an exhibit using ONE of the following food preservation methods: canning; freezing; drying; pickles/relishes; jams, jellies and preserves **OR** a combination of these (see Preservation Combination option below), excluding Freezing. **No freezer jam exhibits will be allowed for Freezing; Jams, Jellies, and Preserves; or for the Preservation Combination options.**

- **Canning** – The exhibit should include two different canned foods in appropriate jars for the products. Food may be fruit, vegetable, or tomato product (i.e. salsa, juice, etc.).
- **Freezing** – Prepare a nutrition display that illustrates a freezing principle. There is NOT a food exhibit option for this preservation method.
- **Drying** – Exhibit two (2) different dried foods packed in plastic food storage bags. Choose from fruit, vegetable, fruit leather or meat jerky.
- **Pickles and Relishes** – Exhibit two pint jars of different recipes of pickles and/or relishes.
- **Jams, Jellies, and Preserves** – Exhibit half-pint jars of two different jams, jellies, and/or preserves.
- **Preservation Combination** – Exhibit two different preserved food products, excluding Freezing, in appropriate jars/packaging (drying). For example, exhibit 1 jar of tomatoes (Canning) and 1 half-pint of jelly (Jams, Jellies, and Preserves).

All preserved products should be prepared and processed according to the current USDA/Extension information. USDA information on preserving food, including recipes, can be found at: www.homefoodpreservation.com or web.extension.illinois.edu/foodpreservation/ Recipes must be processed in a water-bath or pressure canner.

All food exhibits must be labeled with: 1) The name of the food; 2) The date preserved; 3) Appropriate method(s) of food preservation (For canned projects: boiling water bath or pressure canner; For drying projects: Specify equipment used (food dehydrator, oven, etc.))

Examples:

- Strawberry jam, boiling water bath. July 13, 2014.
- Green beans, pressure canner. July 13, 2014.
- Beef jerky, food dehydrator and oven. July 13, 2014.

All food exhibits must be accompanied with the recipe(s) – typed or written, with the source of the recipe(s) listed..
Required Recipes and Sources for Food Preservation Exhibits – all food preservation recipes be from an approved source. Those sources are:

- *PUT IT UP! Food Preservation for Youth* manuals
- U.S. Department of Agriculture (USDA)
- National Center for Home Food Preservation
- Ball/Kerr Canning (recipes after 1985)
- Mrs. Wages

DO NOT BRING RECIPES FROM: Magazine or newspaper clippings, Pinterest (unless it is from a source listed above), Grandma's or a recipe from a family member or friend without a source, Cookbooks (excluding the Ball, Kerr and Put It Up! book).

Canning Equipment Requirements: All canned products must be canned in clear, standard jars in good condition (no chips or cracks). Jars must be sealed using two-piece canning lids (flat lid and band). Must use a new, unused flat lid. Bands must not be rusty or severely worn.

Foods Innovation Class (SF 50211)

Open to youth enrolled in any Foods project.

Demonstrate the skills and knowledge you have gained through the project. The exhibit may include, but isn't limited to, original recipes, results of experiments not in the foods project books, variations on recipes or experimenting with unique cooking or baking methods. Your work can be displayed by a food product, demonstrations, digital presentations, performances, or posters which you have made. Choose whatever method best shows what you've learned. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. If you bring a food product, the food will NOT be tasted.

Foods Nutrition Ready4Life Challenge (SF 50210)

Open to 11- to 18-year-olds enrolled in any Foods project

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Foods Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogramed to perform a different function other than what it was designed to do)
- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

FORESTRY

Each county may submit 1 entry total from 50212, 50213, 50214; and 1 entry from 50216.

Forests of Fun 1 (SF 50212)

Exhibit any product or display illustrating an activity from the book. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Forests of Fun 2 (SF 50213)

Exhibit any product or display illustrating an activity from the book. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Forests of Fun 3 (SF 50214)

Exhibit any product or display illustrating an activity from the book. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Forestry Ready4Life Challenge (SF 50216)

Open to 11- to 18-year-olds enrolled in any Forestry project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Forestry Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

GEOLOGY

Each county may submit 3 entries total from 50218, 50219, 50220, 50221, 50222; and 1 entry from 50224.

Size and number of exhibit cases should relate appropriately to the number of specimens being displayed for a specified class. Specimens are not limited to Illinois locations. All levels of Geology use the same manual, Geology-Introduction to the Study of the Earth.

Pebble Pups 1 (SF 50218)

Display 8 to 19 rocks and mineral specimens with three minerals in the collections. Collection may include duplications that show variations. Label collection and note where found.

Pebble Pups 2 (SF 50219)

Display at least 20, but no more than 29, rocks and mineral specimens with seven minerals in the collections. Collection may include duplications that show variations. Label collection and note where found.

Rock Hounds 1 (SF 50220)

Display at least 30, but no more than 40, rocks and mineral specimens with ten minerals in the collection. Rocks should include at least three igneous, two metamorphic, and three sedimentary groups. Label collection and note where found.

Rock Hounds 2 (SF 50221)

Display no more than 50 specimens that have been selected to illustrate a specific theme of the exhibitor's choosing. Be creative. Sample categories could include (but are not limited to): industrial minerals and their uses; a specific rock group and the variety that occurs in that group, including some minerals that occur in that environment; select fossils traced through the geologic ages; minerals and their crystal habits; rocks and minerals used in the lapidary arts.

Geology Innovation Class (SF 50222)

Open to youth enrolled in Geology.

Demonstrate the skills and knowledge you have gained through the Geology project. Exhibit may be the result of knowledge gained from project manuals; independent study about Illinois rock(s) and mineral(s), interaction with geology professionals; and/or individual exploration in the area of geology. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Geology Ready4Life Challenge (50224)

Open to 11- to 18-year-olds enrolled in the Geology project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Geology Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogramed to perform a different function other than what it was designed to do)
- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

HEALTH

Each county may submit 3 entries total from 50226, 50227, 50228, 50229; and 1 entry from 50231.

Health 1 (SF 50226)

Select four First Aid Skills and complete the activities for that section. **Bring the project book** and be prepared to discuss the completed sections. Exhibit a family first aid kit and be prepared to explain what each item is used for.

Health 2 (SF 50227)

Select four **Staying Healthy** skills and complete the activities for that section. **Bring the project book** and be prepared to discuss the completed sections. Exhibit a “smarts” project as explained in the project manual.

Health 3 (SF 50228)

Select four Keeping Fit Skills and complete the activities for that section. **Bring the project book** and be prepared to discuss the completed sections. Exhibit a poster or display on one of the Keeping Fit Skills.

Health Innovation Class (SF 50229)

Open to youth enrolled in Health 1, 2 or 3.

Demonstrate the skills and knowledge you have gained through the Health project. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Health Ready4Life Challenge (SF 50231)

Open to 11- to 18-year-olds enrolled in any Health project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Health Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

HORTICULTURE: FLORICULTURE

Each county may submit 3 entries total from 50192, 50193, 50194, 50195, 50196; and 1 entry from 50198.

Floriculture A (SF 50192)

Exhibit one of the following options:

- Create a flower arrangement; either a round arrangement or a bud vase. No silk flowers are permitted; **OR**
 - Create a photo collage or a collection of pictures of flowers that you have raised. Label your flowers by name and tell if you started with a seed, cutting or transplants. Mount pictures on a poster board; **OR**
- Exhibit in one container, 3 stems of blooms - each with attached foliage. Foliage that would go inside the container may be removed. All three blooms or stems should be the same variety, color, shape and size and must have been grown from seed, young seedling plants, bulbs or rhizomes by the exhibitor. (NOTE: Exhibitors choosing lilies should include no more than 2/3 of foliage for their exhibit.)

Floriculture B (SF 50193)

Exhibit one of the following options:

- Create an artistic display of dried flowers explaining how each was dried; **OR**
- Create a photo collage or collection of pictures of plants from your theme garden. Label your plants by name and explain how the plants were chosen to fit the theme.

Floriculture C (SF 50194)

Exhibit one of the following options:

- Create a terrarium. Selected plants should be started by the exhibitor from cuttings or seeds or as purchased plugs. The terrarium must be cared for by the exhibitor for at least 5 months. Exhibitor should be able to explain the different plant, soil, and environmental needs and watering requirements of a closed system; **OR**
- Exhibit a plant that you propagated from cuttings, layering or division or started from seed. Create a photo board showing the progression of growth. Tips for vegetative propagation of houseplants can be found at University of Illinois Extension houseplants, <http://urbanext.illinois.edu/houseplants/default.cfm>.

Floriculture D (SF 50195)

Exhibit one of the following options:

- Create a centerpiece around a theme such as a wedding, holiday, birthday, etc. No silk flowers are permitted; **OR**
- Create an exhibit of forced bulbs in a pot.

Floriculture Display (SF 50196)

(Open to youth enrolled in Floriculture A, Floriculture B, Floriculture C, and Floriculture D)

Present an exhibit of the member's choice that focuses on some aspect of floriculture which does not fit in the categories above. The exhibit may include, but isn't limited to, dish gardens, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Floriculture Ready4Life Challenge (SF 50198)

Open to 11- to 18-year-olds enrolled in any Floriculture project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Floriculture Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

HORTICULTURE: VEGETABLE GARDENING

Each county may submit 3 entries total for 50314, 50315, 50316; and 1 entry for 50318.

All vegetables exhibited must have been grown by the exhibitor as part of their current gardening 4-H project. Exhibitors should be knowledgeable about various aspects of the vegetables, including but not limited to different varieties, soil testing, fertilizers used, etc. Vegetable exhibits should be prepared according to the Illinois Vegetable Garden Guide website: <http://web.extension.illinois.edu/vegguide/>. Waxes and oils may not be used on vegetables or fruits. Any plant infested with insects will be removed from the exhibit area and will not be eligible for a Superior exhibit.

Vegetable Display (SF 50314)

(Open to youth in Vegetable Gardening A, Vegetable Gardening B, Vegetable Gardening C, and Vegetable Gardening D)

This class is allowed a 2'6" x 2'6" space for display.

- Display must include 6 or more different kinds of vegetables. There may not be more than 2 different varieties of any vegetable. For example, red and white potatoes would be classified as two different varieties. Acorn squash and zucchini would be classified as two different vegetables.
- The number and type of vegetables used must conform to the Vegetable Plate/Basket List.
- Exhibitors must provide the name and variety of all vegetables used (i.e. Cabbage – Golden Acre; Cucumber, slicing – Straight Eight; Tomatoes, slicing – Rocky Top; Snap Beans – Contender, etc.).

Vegetable Plate (SF 50315)

(Open to youth in Vegetable Gardening A, Vegetable Gardening B, Vegetable Gardening C, and Vegetable Gardening D)

- Exhibit must include 2 single vegetable plates. (Exhibitor will furnish the disposable plates.)
- Number of vegetables on plates must conform to plate list below.
- Only one variety on each plate.
- An exhibitor cannot show two plates of the same type vegetable. (i.e.: Cannot exhibit red *and* white potatoes or zucchini *and* straightneck summer squash.)

VEGETABLE PLATE/DISPLAY LIST

When selecting vegetables for exhibition, keep in mind that the judge will evaluate them on the basis of cleanliness, uniformity, condition, quality, and trueness to variety. (*Lists are provided by UI Extension Horticulturists; Items are listed according to the correct definition of vegetables*)

Asparagus (5 spears)
Beans, Lima (12 pods)
Beets (5)
Broccoli (1 head)
Brussels sprouts (12 sprouts)
Cabbage (1 head)
Cauliflower (1 head)
Carrots (5)
Cucumber, pickling or slicing (5)
Eggplant (1)
Garlic (5)
Kohlrabi (5)
Lettuce (1 head or plant)
Muskmelon incl. cantaloupe (1)
Okra (12)
Onions, large, dry (5)
Onions, green or set (12)

Parsnips (5)
Peas, (12 pods)
Peppers, large fruited (bell/banana) (5)
Peppers, small fruited (chili/cherry) (12)
Popcorn (5)
Potatoes (any variety) (5)
Pumpkin (1)
Rhubarb, trimmed stalks (3)
Rutabaga (5)
Salsify (5)
Squash, summer (any variety) (3)
Sweet Corn, in husks (5)
Tomatoes, slicing (5)
Tomatoes, small fruited (12)
Turnip (5)
Watermelon (1)

Squash, winter (Acorn, butternut, buttercup, spaghetti, Hubbard, Turks's Turban) (1)
Beans, Snap, Green Pod or Golden Wax (12 pods)
Greens (collard, endive, escarole, kale, mustard, spinach, Swiss chard) (1 plant)
Horseradish Root (1 marketable root specimen harvested this year)

Vegetable Gardening Display (SF 50316)

(Open to youth in Vegetable Gardening A, Vegetable Gardening B, Vegetable Gardening C, Vegetable Gardening D) Present an exhibit of the member's choice that focuses on some aspect of vegetable gardening which does not fit in the categories above. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Vegetable Gardening Ready4Life Challenge (SF 50318)

Open to 11- to 18-year-olds enrolled in any Vegetable Gardening project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Vegetable Gardening Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

INTERCULTURAL

Each county may submit 1 individual entry from 50233; 1 individual entry from 50234; 1 individual entry from 50236; 1 club entry from 50235. **Due to space restrictions, exhibits are limited to 2' 6" wide and 15" deep.**

Passport to the World, Individual (SF 50233)

Prepare a display illustrating what you have learned about a country's or U.S. region's geography, economy, agriculture, people, language, housing, culture, music, crafts, clothing, holidays or other aspect. Exhibit should be educational in nature and should not promote one's beliefs over another person's beliefs. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Include the project manual with completed sections that pertain to the exhibit information. Due to space restrictions, exhibits are limited to 2' 6" wide and 15" deep.

Diversity & Cultural Awareness (SF 50234)

Create a display or binder portfolio that illustrates the results of a minimum of three (3) completed activities from the project book. Due to space restrictions, exhibits are limited to 2' 6" wide and 15" deep.

Intercultural Ready4Life Challenge (SF 50236)

Open to 11- to 18-year-olds enrolled in any Intercultural project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Intercultural Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

Intercultural, Club, Includes *Passport to the World, Diversity & Cultural Awareness*, and *Latino Cultural Arts Projects* (SF 50235)

Exhibit a display illustrating the steps that the club has completed on the project selected for the year. Include a written outline or report of accomplishments and future goals. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what the club members have learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. The display must be accompanied by 3 or more club exhibitors at the time of the judge's critique. Club members should make a 5- to 10-minute presentation to the judge. All club members present for the judge's critique should be able to discuss the project and answer questions. Only club members present for judging who participate in the actual critique and presentation are eligible for ribbons and premiums. Due to space restrictions, exhibits are limited to 2' 6" wide and 15" deep.

INTERIOR DESIGN

Each county may submit 2 entries total from 50242, 50243, 50244, 50245; and 1 entry from 50247.

Design Decisions, Beginning (SF 50242)

Any exhibit must have been created or redesigned by the exhibitor as part of their current Interior Design 4-H project. Exhibitors should be knowledgeable about various aspects of the project. Exhibits could include items such as, but not limited to, comparison studies of different products or techniques; made accessories, wall-hangings, window coverings, or furniture items; refinished or redesigned furniture; or a plan to solve some type of interior design problem. Exhibit should be appropriate to the exhibitor's age, skills and ability in this project.

Design Decisions, Intermediate (SF 50243)

Any exhibit must have been created or redesigned by the exhibitor as part of their current Interior Design 4-H project. Exhibitors should be knowledgeable about various aspects of the project. Exhibits could include items such as, but not limited to, comparison studies of different products or techniques; made accessories, wall-hangings, window coverings, or furniture items; refinished or redesigned furniture; or a plan to solve some type of interior design problem. Exhibit should be appropriate to the exhibitor's age, skills and ability in this project.

Design Decisions, Advanced (SF 50244)

Any exhibit must have been created or redesigned by the exhibitor as part of their current Interior Design 4-H project. Exhibitors should be knowledgeable about various aspects of the project. Exhibits could include items such as, but not limited to, comparison studies of different products or techniques; made accessories, wall-hangings, window coverings, or furniture items; refinished or redesigned furniture; or a plan to solve some type of interior design problem. Exhibit should be appropriate to the exhibitor's age, skills and ability in this project.

Interior Design Innovation Class (SF 50245)

Open to enrolled in Interior Design.

Demonstrate the skills and knowledge you have gained through the Interior Design project. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Interior Design Ready4Life Challenge (SF 50247)

Open to 11- to 18-year-olds enrolled in the Interior Design project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Interior Design Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

LEADERSHIP

Each county may submit 3 entries total from 50249, 50250, 50251, 50252; 2 entries from 50254; 1 entry from 50255.

Leadership 1 (SF 50249)

Create a binder portfolio with a minimum of four (4) completed activities each year from the areas noted below. Build upon your previous year's work. Photocopies or original pages of the completed activities from the book should be included in the portfolio.

First Year – One activity from each of the following sections: Understanding Self; Communication; and Getting Along with Others, plus one of exhibitor's choice from the manual.

Second Year – One activity from each of the following sections: Getting Along with Others; Learning to Learn; and Making Decisions, plus one of exhibitor's choice from the manual.

Third Year – One activity from each of the following sections: Making Decisions; Managing; and Working with Groups, plus one of exhibitor's choice from the manual.

Leadership 2 (SF 50250)

Building upon your previous work, continue adding to your binder portfolio with a minimum of four (4) completed activities each year from the areas noted below. Photocopies or original pages of the completed activities from the book should be included in the portfolio.

First Year – One activity from each of the following sections: Understanding Self; Communication; and Getting Along with Others, plus one of exhibitor's choice from the manual.

Second Year – One activity from each of the following sections: Getting Along with Others; Learning to Learn; and Making Decisions, plus one of exhibitor's choice from the manual.

Third Year – One activity from each of the following sections: Making Decisions; Managing; and Working with Groups, plus one of exhibitor's choice from the manual.

Leadership 3 (SF 50251)

Building upon your previous work, continue adding to your binder portfolio with a minimum of four (4) completed activities each year from the areas noted below. Photocopies or original pages of the completed activities from the book should be included in the portfolio.

First Year – One activity from each of the following sections: Understanding Self; Communication; and Getting Along with Others, plus one of exhibitor's choice from the manual.

Second Year – One activity from each of the following sections: Getting Along with Others; Learning to Learn; and Making Decisions, plus one of exhibitor's choice from the manual.

Third Year – One activity from each of the following sections: Making Decisions; Managing; and Working with Groups, plus one of exhibitor's choice from the manual.

Leadership Innovation Class (SF 50252)

Open to youth enrolled in Leadership 1, 2, or 3.

Demonstrate the skills and knowledge you have gained through the Leadership project. **Your exhibit should not fit in the other exhibit options for this project.** The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Leadership Ready4Life Challenge (SF 50255)

Open to 11- to 18-year-olds enrolled in any Leadership project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Leadership Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogramed to perform a different function other than what it was designed to do)
- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

Leadership Group Exhibit (SF 50254)

Open to clubs and groups whose members are enrolled in any Leadership project

Exhibit a display illustrating how your group has used the Teens As Leaders model effectively in your club, community, school, or state. Leadership activities might include planning, advising, promoting, mentoring, teaching or advocating for change. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. The display must be accompanied by 3 or more 4-H members at the time of the judge's critique. Club members should make a 5- to 10-minute presentation to the judge. All club members present for the judge's critique should be able to discuss the project and answer questions. Only club members present for judging who participate in the actual critique and presentation are eligible for ribbons and premiums. Due to space limitations, exhibits are limited to 2'6" wide and 15" deep.

NATURE: NATURAL RESOURCES AND OUTDOOR ADVENTURES

Each county may submit 3 entries from 50256, 50257, 50258, 50259; 1 entry from 50267.

Electricity and water are NOT available for these displays. **NO live animals or reptiles are permitted in these exhibits.**

Bring your Project Book.

Natural Resources 1 (SF 50256)

Exhibit any item developed from the project book, *Step Into Nature*.

Natural Resources 2 (SF 50257)

Exhibit any item developed from the project book, *Explore the Natural World*.

Natural Resources 3 (SF 50258)

Exhibit any item developed from the project book, *Blaze the Trail*.

Outdoor Adventures 1: (SF 50259)

Exhibit a display illustrating an activity completed from the project manual.

Outdoor Adventures 2 (SF 50259)

Exhibit a display illustrating an activity completed from the project manual.

Outdoor Adventures 3 (SF 50259)

Exhibit a display illustrating an activity completed from the project manual.

Natural Resources Ready4Life Challenge (SF 50267)

Open to 11- to 18-year-olds enrolled in any Natural Resources and Outdoor Adventures project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

NATURE: FISHING AND WILDLIFE

Each county may submit 3 entries total from 50260, 50261, 50262, 50266, 50263, 50265; and 1 entry from 50291.

Sportsfishing 1 (SF 50260)

Exhibit a product or display made to complete an activity in the *Take the Bait* project manual. This could include, but is not limited to, displays on: different types of fishing tackle, identifying different baits and their uses (no actual bait, please) or identifying the anatomy of a fish. For safety reasons, lures must be placed in a plastic case.

Sportsfishing 2 (SF 50261)

Exhibit a product or display made to complete an activity in the *Reel in the Fun* project manual. This could include, but is not limited to, displays on: different types of knots or rigs and their use; a collection of fishing lures, labeled with their use; or information on preparing and cooking fish (not recipes). For safety reasons, lures must be placed in a plastic case.

Sportsfishing 3 (SF 50262)

Exhibit a product or display made to complete an activity in the *Cast into the Future* project manual. This could include, but is not limited to, displays on: making artificial flies and lures; researching effects of water temperature; sportsfishing careers; or identifying insects that fish eat. For safety reasons, lures must be placed in a plastic case.

Wildlife 1 (SF 50266)

Exhibit any activity developed from the project manual. Be able to explain the importance of and concept behind the exhibit.

Wildlife 2 (SF 50263)

Exhibit any activity developed from the project manual. (Ex. Create a display of the life history of an animal.) Within the exhibit, explain the importance of and concept behind the exhibit.

Wildlife 3 (SF 50265)

Exhibit any activity developed from the project manual. Be able to explain the importance of and concept behind the exhibit.

Fishing & Wildlife Ready4Life Challenge (SF 50291)

Open to 11- to 18-year-olds enrolled in any Fishing or Wildlife project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Natural Resources Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

Exploring Your Environment 1 (not eligible for state fair)

Prepare a display or poster that illustrates an activity from the project manual. The display should demonstrate an understanding of natural and/or manmade environments, how humans affect the environment, or how the environment affects our lives. Include your project manual that documents activity recordkeeping, your answers to activity questions, and details the exhibitor's thoughts and ideas.

Exploring Your Environment 2 (not eligible for state fair)

Prepare a display or poster that illustrates an activity from the project manual. The display should demonstrate an understanding of one of the following: stewardship of natural resources, investigating greenhouse effects on living organisms, methods of reducing or managing waste in your home or community, or calculating your ecological footprint. Include your project manual that documents activity recordkeeping, your answers to activity questions, and details the exhibitor's thoughts and ideas.

PHOTOGRAPHY

Each county may submit 3 entries total from 50268, 50269, 50270, 50271, 50272; and 1 entry from 50274.

Project books are required.

ALL photos in exhibits must have been taken by the exhibitor. Photo/Model releases from individuals pictured in the exhibitor's photographs are required unless the photograph is of a group in a public place where identification would not be an issue. The release can be obtained at: <https://4h.extension.illinois.edu/members/projects/photography> . Photos may be taken with a camera, an electronic tablet (i.e. iPad), or a cell phone.

ALL photos (including Photo Editing exhibits) must be accompanied by details of the camera settings that include:

- a. Camera/device used
- b. Aperture (F-stop)
- c. Exposure time (shutter speed)
- d. ISO (film/sensor sensitivity)
- e. Lighting used (flash, artificial, sunlight, other)
- f. Photo editing software/application used (required for ALL edits and retouches except for cropping)
- g. Filters used (lens filters and or digital/software filters)

Members are allowed to shoot on a camera's automatic setting, but should be able to find the metadata information on the photo to discuss the information above.

The exhibition size requirements for all photographs will be:

- Minimum image size: 5X7
- Maximum image size: 8X10
- Maximum exhibit size (including frame): 18X20

All exhibitors must include unframed **un-edited** versions of either the same subject or the examples of the same technique that the framed image represents. This will assist the judge in understanding the choices made by the photographer to build the exhibited composition.

NOTE: Images taken with devices that apply an automatic filter will not be eligible for award.

Photography 1 (SF 50268)

Exhibit one framed photo which demonstrates your understanding of a technique you learned from your Photography 1 project manual. No photo editing is allowed in this class except cropping and red eye removal. Be prepared to show the page in the manual of the technique you are demonstrating.

Photography 2 (SF 50269)

Exhibit one of the options listed below:

- Exhibit one framed 8x10 close-up photograph using the skills learned on page 62-63 of the project manual titled "Bits and Pieces." No photo editing is allowed in this class except cropping and red eye removal; **OR**

Exhibit one framed 8"x10" photo which demonstrate your understanding of a technique you learned from your Photography 2 project manual. No photo editing is allowed in this class except cropping and red eye removal. Be prepared to show the page in the manual of the technique you are demonstrating.

Photography 3 (SF 50270)

Exhibit one of the options listed below:

- Exhibit one framed 8" x 10" still-life photo that demonstrates good composition, including color, form, texture, lighting and depth of field. No photo editing is allowed in this class except cropping and red eye removal; **OR**

Exhibit one framed 8"x10" photo which demonstrate your understanding of a technique you learned from your Photography 3 project manual. No photo editing is allowed in this class except cropping and red eye removal. Be prepared to show the page in the manual of the technique you are demonstrating.

Photo Editing (SF 50271)

Open to members in Photography 1, Photography 2, and Photography 3.

Exhibit one framed 8" x 10" photo that has been altered using digital photo-editing techniques (beyond cropping and red-eye reduction). Include a print of the original photo(s), taped to the back of the photo frame. Photos in which an automatic filter was applied at the time the photograph was taken will not be eligible for award.

Photography Innovation Class: (SF 50272)

Open to youth enrolled in Photography 1, 2, and 3.

Demonstrate the skills and knowledge you have gained through the Photography project. **Your exhibit should not fit in the other exhibit options for this project.** The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. All exhibits must include one framed photo illustrative of the work you are presenting.

Photography Ready4Life Challenge (SF 50274)

Open to 11- to 18-year-olds enrolled in any Photography project

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Photography Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

PLANTS & SOILS

Plants & Soils 1 (not eligible for state fair)

Prepare a display or poster that illustrates an activity from the project manual. The display should demonstrate an understanding of environmental and internal factors that affect plant growth. Include your project journal that documents activity recordkeeping requirements, answers activity questions, and details personal thoughts and ideas.

Plants & Soils 2 (not eligible for state fair)

Prepare a display or poster that illustrates an activity from the project manual. The display should demonstrate an understanding of the composition of plants, the functions of individual plant parts, plant life cycles, and the many ways plants reproduce. Include your project journal that documents activity recordkeeping, answers activity questions, and details personal thoughts and ideas.

Plants & Soils 3 (not eligible for state fair)

Prepare a display or poster that illustrates an activity from the project manual. The display should demonstrate an understanding of environmental and internal factors that affect plant growth. Include your project journal that documents activity recordkeeping requirements, answers activity questions, and details personal thoughts and ideas.

Plants & Soils Ready4Life Challenge (not eligible for state fair)

Open to 11- to 18-year-olds enrolled in any Plants & Soils project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Plants & Soils Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

ROBOTICS

Each county may submit 3 entries total from 50285, 50286, 50288, 50289, 50292; and 1 from 50293 to the State Fair.

NOTE: If applicable for their class and display, exhibitors must bring their own computers for demonstration purposes; computers will not be provided. Internet access will not be available.

- Exhibits in classes Robotics 1 beginning, 50285, and 50286 are designed to be used with LEGO Mindstorms (NXT or EV3).

Any other programmable robot kit such as Arduino or Raspberry Pi, should be exhibited under Innovation Open Source class.

Robotics 1: Beginning (not eligible for state fair)

Exhibitors should complete Activities 1-6. Exhibitors will design, build and program a robot that can autonomously follow a predetermined path that changes direction at least 4 times during a single run. They will bring their Robotics Notebook to share what they learned about the engineering design process and programming.

Robotics 1: Intermediate (SF 50285)

Exhibitors should complete Activities 7-12. Exhibitors will design, build and program a robot that uses at least one sensor to autonomously follow a path, respond to, and or avoid obstacles. Exhibitors in this class must use at least one sensor in their robot design. They will bring their Robotics Notebook to share what they learned about the engineering design process and programming.

Robotics 2 (SF 50286)

Exhibitors should complete Activities 1-7. Exhibitors will design, build and program a robot that uses sensors and programming to complete one of the provided challenges. They will bring their robot and Robotics Notebook to share changes they made to the robot and/or program along the way, and to describe their experience with completing the challenge.

Robotics Innovation Open Source Class (SF 50292)

Open to youth enrolled in Robotics 3, but may also include youth in Robotics 1 or 2 if the exhibits meets the guidelines.

Exhibit an original robot, either homemade or a kit that does not fall under Robotics 1 or 2 that can complete a task using MULTIPLE sensors. If a robot kit is used, then some parts of the robot must be built using other components such as wood, plastic or metal. The robot can include any types of motors, pneumatics or sensors. The Innovation class can also be used for LEGO Mindstorms or Vex kits where the exhibit does not fall under Robotics 1 or 2 exhibit option. Autonomous control of the robot may also be achieved using an “open source” platform such as Arduino or Raspberry Pi and can be programmed using a coding language that is publicly available. Exhibitors in Robotics Innovation/Open Source class must bring a detailed engineering notebook that describes how the exhibitor designed, built and programmed the exhibit.

Junk Drawer Robotics All exhibits should be original designs made with everyday objects and materials. Exhibits with purchased kits will not be accepted. **Exhibitors are also required to bring their Junk Drawer Robotics Youth Robotics Notebook with the sections completed for the project they are exhibiting, including the sections leading up to the activity they are exhibiting.** For example, if a youth is bringing Activity E from Junk Drawer Level 1, they should have robotics notebook sections A-E completed.

Junk Drawer Robotics 1 (not eligible for state fair)

Exhibit any item from the “To Make” activity from the Junk Drawer Robotics Level 1 Book. Be sure all robotics notebook sections within the module being exhibited are filled in.

Junk Drawer Robotics 2 (SF 50288)

Exhibit any item from the “To Make” activity from the Junk Drawer Robotics Level 2 Book. Be sure all robotics notebook sections within the module being exhibited are filled in.

Junk Drawer Robotics 3 (SF 50289)

Exhibit any item from the “To Make” activity from the Junk Drawer Robotics Level 3 Book. Be sure all robotics notebook sections within the module being exhibited are filled in.

Robotics Ready4Life Challenge (SF 50293)

Open to 11- to 18-year-olds enrolled in any Robotics project

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Robotics Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

SHOOTING SPORTS

Each county may submit 2 entries total from 50401, 50402, 50403, 50404, 50405; and 1 from 50406.

Members must be a member of an approved 4-H Shooting Sports Club to exhibit.. All exhibits should be posters or stand-alone items suitable for display to the general public. Stand-alone items have the intent to enhance the discipline such as a quiver, gun case, gun sling, locking cabinet, gun or target stand, sporting clays equipment wagon, etc. Exhibits deemed to be inappropriate by a superintendent will not be displayed.

NOTE: Shooting Sports Displays are prohibited from displaying the following:

- No live ammunition
 - No knives or arrow tips (including field points, hunting broadheads, etc.)
 - No functional or non-functional bows, firearms or firearm parts that could be reassembled are allowed.
 - No humanoid shaped targets or reference to paintball, laser tag, air-soft, or pointing of any type of firearm or bow toward another person is allowed.
 - No display involving primarily tactical design firearms (i.e. AR platform or military type firearms)
 - No reference or use of the word “weapon” should be used in a display
- Make sure there are no safety violations in your display. (Example: no earplugs or safety glasses in a picture of a person shooting a firearm.)

Shooting Sports: Archery (SF 50401)

Exhibit a poster or stand-alone display depicting safe archery handling, range safety, the parts of the bow, tracking the target, target sighting, or another topic you have learned through the 4-H Shooting Sports program.

Shooting Sports: Rifle (SF 50402)

Exhibit a poster or stand-alone display depicting safe firearm handling, range safety, the parts of the rifle, tracking the target, target sighting, or another topic you have learned through the 4-H Shooting Sports program.

Shooting Sports: Shotgun (SF 50403)

Exhibit a poster or stand-alone display depicting safe firearm handling, range safety, the parts of the shotgun, tracking the target, target sighting, or another topic you have learned through the 4-H Shooting Sports program.

Shooting Sports: Hunting & Outdoor Skills (SF 50404)

Exhibit a poster or stand-alone display related to something you learned in the Hunting & Outdoor Skills project.

Shooting Sports: Pistol (SF 50405)

Exhibit a poster or stand-alone display depicting safe firearm handling, range safety, the parts of the pistol, tracking the target, target sighting, or another topic you have learned through the 4-H Shooting Sports program.

Shooting Sports Ready4Life Challenge (SF 50406)

Open to 11- to 18-year-olds enrolled in any Shooting Sports project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Shooting Sports Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogramed to perform a different function other than what it was designed to do
- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

SMALL ENGINES

Each county may submit 1 entry total for 50294; and 1 entry for 50297.

Small Engine displays must be no larger than 4' x 4' display board. Exhibits must be portable. No complete engines, lawn tractors, tillers, chainsaws, etc. are permitted for display. No electrical power is available for displays/exhibits.

Small Engines 1 (SF 50294)

Exhibit a display, selecting one of the following items:

Ignition System: Identify the parts of the Ignition System and explain how magnetic energy is produced through the ignition system to ignite the spark plug; **OR**

Compression System: Explain how heat energy is produced by an engine and converted into mechanical energy; **OR**

Heat Transfer: Explain how heat is transferred through the cooling and lubrication system of an air cooled or water cooled engine; **OR**

Filter Maintenance: Explain the proper maintenance and cleaning of the air, fuel and oil filters of an engine; **OR**

What does a serial number reveal?: Explain the various information that can be learned from the serial number or identification number stamped on the shroud of a Briggs & Stratton engine; **OR**

Tools to do the job: Identify and explain the function(s) of different specialty tools needed for small engine work; **OR**

Experimentation: Explain through illustration an experiment you conducted from the project manual showing the results of your work.

Small Engines 2 (SF 50294)

Exhibit a display, selecting one of the following items:

Ignition System: Identify the parts of the Ignition System and explain how magnetic energy is produced through the ignition system to ignite the spark plug; **OR**

Compression System: Explain how heat energy is produced by an engine and converted into mechanical energy; **OR**

Heat Transfer: Explain how heat is transferred through the cooling and lubrication system of an air cooled or water cooled engine; **OR**

Filter Maintenance: Explain the proper maintenance and cleaning of the air, fuel and oil filters of an engine; **OR**

What does a serial number reveal?: Explain the various information that can be learned from the serial number or identification number stamped on the shroud of a Briggs & Stratton engine; **OR**

Tools to do the job: Identify and explain the function(s) of different specialty tools needed for small engine work; **OR**

Experimentation: Explain through illustration an experiment you conducted from the project manual showing the results of your work.

Small Engines 3 (SF 50294)

Exhibit a display, selecting one of the following items:

Ignition System: Identify the parts of the Ignition System and explain how magnetic energy is produced through the ignition system to ignite the spark plug; **OR**

Compression System: Explain how heat energy is produced by an engine and converted into mechanical energy; **OR**

Heat Transfer: Explain how heat is transferred through the cooling and lubrication system of an air cooled or water cooled engine; **OR**

Filter Maintenance: Explain the proper maintenance and cleaning of the air, fuel and oil filters of an engine; **OR**

What does a serial number reveal?: Explain the various information that can be learned from the serial number or identification number stamped on the shroud of a Briggs & Stratton engine; **OR**

Tools to do the job: Identify and explain the function(s) of different specialty tools needed for small engine work; **OR**

Experimentation: Explain through illustration an experiment you conducted from the project manual showing the results of your work.

Small Engines Ready4Life Challenge (SF 50297)

Open to 11- to 18-year-olds enrolled in any Small Engines project,

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Small Engines Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do

Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.

All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

TECHNOLOGIES

3-D PRINTING & DESIGN: Choose one of the following classes based on your interest and skill level.

3-D Design Beginner (not eligible for State Fair)

No 3-D Printer or 3-D printed object is required for this exhibit. Exhibit a simple 3-D rendered design using Computer Aided Design (CAD) Software such as Tinker CAD or Inventor. The design must be an object that performs a specific task, and may not be based on already existing 3-D models. It must be able to be 3-D printed. Any CAD software can be used, but files must be in .STL format. Bring your design on a Jump Drive to be viewed for judging. Exhibits in this class may not have multiple parts, doors, hinges, or any sort of mechanics.

Exhibitors are expected to use the engineering design process to complete their designs. This process is important to the outcomes and exhibitors must keep a log outlining the step-by-step notes, sketches, and documentation from throughout the design process. The logbook should define the problem that is being solved/use of the object and describe in detail each step of the Engineering Design Process taken during the creation of the invention.

3-D Design Advanced (not eligible for State Fair)

Exhibitors are expected to go above and beyond those expectations set in 3-D design beginner. No 3-D Printer or 3-D printed object is required for this exhibit. Exhibit a complex 3-D rendered design using Computer Aided Design (CAD) Software such as Tinker CAD or Inventor. The design must be an object that performs a specific task, and may not be based on already existing 3-D models. It must be able to be 3-D printed. Any CAD software can be used, but files must be in .STL format. Bring your design on a Jump Drive to be viewed for judging. Exhibits in this class **MUST** not have multiple parts, doors, hinges or some sort of mechanistic feature to accomplish a specific task.

Exhibitors are expected to use the engineering design process to complete their designs. This process is important to the outcomes and exhibitors must keep a log outlining the step-by-step notes, sketches, and documentation from throughout the design process. The logbook should define the problem that is being solved/use of the object and describe in detail each step of the Engineering Design Process taken during the creation of the invention.

3-D Printing Beginner (not eligible for State Fair)

Exhibit a simple 3-D printed object designed using Computer Aided Design (CAD) Software such as Tinker CAD or Inventor. The 3-D printed object must perform a specific task, and may not be based on already existing 3-D models. It must be 3-D printed using **ONLY A COMMERCIALY AVAILABLE HOME/DESKTOP 3-D PRINTER**. In addition, original design files must accompany each exhibit. These files must be in .STL format. Bring your design on a jump drive to be viewed for judging. Exhibits in this class may not have multiple parts, doors, hinges or any sort of mechanics.

Exhibitors are expected to use the engineering design process to complete their designs. This process is important to the outcomes and exhibitors must keep a log outlining the step-by-step notes, sketches, and documentation from throughout the design and print process. The logbook should define the problem that is being solved/use of the object and describe in detail each step of the Engineering Design Process taken during the creation of the invention.

3-D Printing Advanced (not eligible for State Fair)

Exhibitors are expected to go above and beyond those expectations set in 3-D Printing beginner. Exhibit a Complex 3-D printed object designed using Computer Aided Design (CAD) software such as Tinker CAD or Inventor. The 3-D print must be an object that performs a specific task, and may not be based on already existing 3-D models. Exhibits in this class **MUST** have multiple parts, doors, hinges or some sort of mechanical feature. It must be 3-D printed using **ONLY A COMMERCIALLY AVAILABLE HOME/DESKTOP 3-D PRINTER**. In addition, original design files must accompany each exhibit. These files must be in .STL format. Bring your design on a Jump Drive to be viewed for judging.

Exhibitors are expected to use the engineering design process to complete their designs. This process is important to the outcomes and exhibitors must keep a log outlining the step-by-step notes, sketches, and documentation from throughout the design and print process. The logbook should define the problem that is being solved/use of the object and describe in detail each step of the Engineering Design Process taken during the creation of the invention.

3-D Printing & Design Ready4Life Challenge (not eligible for State Fair)

Open to 11- to 18-year-olds enrolled in any 3-D project

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

3-D Print & Design Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do

Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.

All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

UNMANNED AERIAL VEHICLES/SYSTEMS (DRONES):

Choose one of the following classes based on your interest and skill level.

UAV Display (not eligible for State Fair)

Prepare a display related to the Drones/UAV project on the topic of your choosing. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Non-UAV/ Drone projects should not be entered in this class.

UAV Unmanned Aerial Systems (not eligible for State Fair)

Exhibit one Unmanned Aerial Vehicle and associated system assembled or made by the member. UAV or Drone exhibits in this class must be either originally designed or built from a kit of reconfigurable parts and components. These displays are limited to multicopters (tri, quad, hex, and octocopters), as well as FPV airplanes and flying wings with wingspans up to 36". The UAV **MUST** have a Flight Controller and utilize a camera/video transmission system. The exhibit will be a static display. The Drone should be in good flying condition with batteries fully charged, and all UAS components (including Video System) ready to demonstrate. **DO NOT** display your UAV with the propellers on, but rather on the table to the side of your UAV. The Drone will not be flown unless the weather permits, and flights have been approved by the local FAA/Air Traffic Control Tower. Attach the printed directions of the UAV if any were used.

UAV Ready4Life Challenge (not eligible for State Fair)
Open to 11- to 18-year-olds enrolled in any UAV project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

UAV Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)

Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.

All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

THEATRE ARTS

Each county may 3 entries total for 50299, 50301, 50302; and 1 entry for 50304.

Theatre Arts 1 (SF 50299)

Exhibit one of the following items:

- Portfolio of acting activities completed during the current year (A video of performances is not considered a portfolio and will not be accepted for exhibit.); **OR**
- Display illustrating a drawing/photograph of a clown character created by the exhibitor; **OR**
- Display illustrating a picture story developed by the exhibitor.

Theatre Arts 3 (SF 50301)

Exhibit one of the following items:

- Portfolio of activities for set design; make-up; or sound, props, or costuming completed during the current year; **OR**
- Display that includes sound, props and costume charts appropriate for a selected scene from a story or play (limited to no more than 8 items); **OR**
- Display a scenic design model to depict a scene from a script; **OR**
- Display illustrating a character with make-up drawn or colored in. Include a photograph of a person wearing the make-up and information on the character's personality or part in the play.

Theatre Arts Innovation Class (SF 50302)

Open to youth enrolled in Theatre Arts.

Demonstrate the skills and knowledge you have gained through Theatre Arts project. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Theatre Arts Ready4Life Challenge (SF 50304)

Open to 11- to 18-year-olds enrolled in any Theatre project

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Theatre Arts Maker (SF 50400)

Open to youth in all projects. Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

TRACTOR

Each county may submit 2 entries total for 50306, 50307, 50308, 50309, 50310; and 1 entry for 50312.

Tractor A (SF 50306)

Exhibit a display or poster that illustrates one of the following topics: tractor safety; care and maintenance; the tractor as a valuable farm machine; or an activity listed in the project manual.

Tractor B (SF 50307)

Exhibit a display or poster that illustrates one of the following topics: cause and prevention of rollovers, diagram how an air cleaner works, diagram & identify an engine cooling system, regulations for battery & oil disposal, or another activity listed in the 4-H project manual.

Tractor C (SF 50308)

Exhibit a display or poster that illustrates one of the following topics: wagon and bin hazards, diagram and identify open and closed hydraulic systems, mower types and safety features conveyor types and safety features, or another activity listed in the 4-H project manual.

Tractor D (SF 50309)

Exhibit a display or poster that illustrates one of the following topics: method of winterizing a tractor, chemical uses and required safety equipment, parts and process of internal combustion engine, procedure for cleaning and flushing tractor radiator, or another activity.

Tractor Innovation Class (SF 50310)

Open to youth enrolled in Tractor A, B, C or D.

Demonstrate the skills and knowledge you have gained through the Tractor project. This could be related to, but not limited to, advancements in technology, enhancements to crop production, or a topic of interest to the member related to tractors or farm machinery. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Tractor Ready4Life Challenge (SF 50312)

Open to 11- to 18-year-olds enrolled in any Tractor project

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Tractor Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

VETERINARY SCIENCE

Each county may submit 1 entry total from 50320; and 1 entry from 50322.

Veterinary Science 1 (SF 50320)

Prepare a display focusing on any activity related to the veterinary science project. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Veterinary Science 2 (SF 50320)

Prepare a display focusing on any activity related to the veterinary science project. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Veterinary Science 3 (SF 50320)

Prepare a display focusing on any activity related to the veterinary science project. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Veterinary Science Ready4Life Challenge (SF 50322)

Open to 11- to 18-year-olds enrolled in any Veterinary Science project

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Vet Science Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)

- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.

- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

VIDEO/FILMMAKING

Each county may submit 3 entries total from 50324, 50325, 50326, 50327, 50328; and 1 entry from 50330. Enrollment in the Video project is required to exhibit in the classes in this section.

All Exhibitors must bring their video to be judged on a USB flash drive and saved in .MP4 format. Exhibitors are encouraged to post their video on YouTube.com in advance of State Fair. Exhibitors may choose whether to make the video “public, unlisted” (someone must have the link to view it), or “private” (only people you choose may view it). This will allow fairgoers to view the exhibits on display. There will be monitors at the exhibit table for viewing videos so exhibitors will NOT need to bring a laptop or device for viewing.

Requirements that apply to ALL video classes:

Video submissions should be no longer than five (5) minutes in length (unless noted differently in class description.). Videos are to be original and a result of the member’s current year’s work. Criteria for judging shall include: (1) Evidence of story line; (2) Use of camera angles; (3) Use of zooming techniques; and (4) Smoothness of scene changes. Image and sound quality will be considered in relation to equipment available to and used by exhibitor. All videos should comply with copyright regulations and display an image that is appropriate for 4-H audiences. No time or date should be imprinted on the video footage. All videos should include an opening title screen, as well as closing credits which include date of production, name of video exhibitor and research sources if appropriate. **All Video/Filmmaking exhibitors must include a printed copy of materials which will remain on display.**

Commercial or Promotional Video (SF 50324)

Prepare a short video (30 seconds to 1 minute in length) that promotes an event, advertises a specific project/product, or is a public service announcement. The video should demonstrate skills in making and editing video.

Animated Video (SF 50325)

Video in this class should represent creative animation of original artwork created by the exhibitor and may include stop motion techniques. Media might include images created with graphics software or hand-drawn images.

Documentary (SF 50326)

Video in this class should represent a research-based investigation into a topic of choice. Video credits should list research sources and may include paper or electronically published materials, as well as, and/or interviews with experts or constituents related to the topic of investigation.

Short Story or Short Narrative (SF 50327)

Prepare a short video that tells a story. The video should demonstrate skills in making and editing video.

Video/Filmmaking Innovation Class (SF 50328)

Open to youth enrolled in Video/Filmmaking

Demonstrate the skills and knowledge you have gained through the Video project. **Your exhibit should not fit in the other exhibit options for this project.** The exhibit may include, but isn’t limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you’ve learned. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Video/Film Ready4Life Challenge (SF 50330)

Open to 11- to 18-year-olds enrolled in any Video/Film project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Video Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.

The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do

Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)

Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.

All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

TECHNOLOGIES

3-D PRINTING & DESIGN: Choose one of the following classes based on your interest and skill level.

3-D Design Beginner (not eligible for State Fair)

No 3-D Printer or 3-D printed object is required for this exhibit. Exhibit a simple 3-D rendered design using Computer Aided Design (CAD) Software such as Tinker CAD or Inventor. The design must be an object that performs a specific task, and may not be based on already existing 3-D models. It must be able to be 3-D printed. Any CAD software can be used, but files must be in .STL format. Bring your design on a Jump Drive to be viewed for judging. Exhibits in this class may not have multiple parts, doors, hinges, or any sort of mechanics.

Exhibitors are expected to use the engineering design process to complete their designs. This process is important to the outcomes and exhibitors must keep a log outlining the step-by-step notes, sketches, and documentation from throughout the design process. The logbook should define the problem that is being solved/use of the object and describe in detail each step of the Engineering Design Process taken during the creation of the invention.

3-D Design Advanced (not eligible for State Fair)

Exhibitors are expected to go above and beyond those expectations set in 3-D design beginner. No 3-D Printer or 3-D printed object is required for this exhibit. Exhibit a complex 3-D rendered design using Computer Aided Design (CAD) Software such as Tinker CAD or Inventor. The design must be an object that performs a specific task, and may not be based on already existing 3-D models. It must be able to be 3-D printed. Any CAD software can be used, but files must be in .STL format. Bring your design on a Jump Drive to be viewed for judging. Exhibits in this class MUST not have multiple parts, doors, hinges or some sort of mechanistic feature to accomplish a specific task.

Exhibitors are expected to use the engineering design process to complete their designs. This process is important to the outcomes and exhibitors must keep a log outlining the step-by-step notes, sketches, and documentation from throughout the design process. The logbook should define the problem that is being solved/use of the object and describe in detail each step of the Engineering Design Process taken during the creation of the invention.

3-D Printing Beginner (not eligible for State Fair)

Exhibit a simple 3-D printed object designed using Computer Aided Design (CAD) Software such as Tinker CAD or Inventor. The 3-D printed object must perform a specific task, and may not be based on already existing 3-D models. It must be 3-D printed using ONLY A COMMERCIALY AVAILABLE HOME/DESKTOP 3-D PRINTER. In addition, original design files must accompany each exhibit. These files must be in .STL format. Bring your design on a jump drive to be viewed for judging. Exhibits in this class may not have multiple parts, doors, hinges or any sort of mechanics.

Exhibitors are expected to use the engineering design process to complete their designs. This process is important to the outcomes and exhibitors must keep a log outlining the step-by-step notes, sketches, and documentation from throughout the design and print process. The logbook should define the problem that is being solved/use of the object and describe in detail each step of the Engineering Design Process taken during the creation of the invention.

3-D Printing Advanced (not eligible for State Fair)

Exhibitors are expected to go above and beyond those expectations set in 3-D Printing beginner. Exhibit a Complex 3-D printed object designed using Computer Aided Design (CAD) software such as Tinker CAD or Inventor. The 3-D print must be an object that performs a specific task, and may not be based on already existing 3-D models. Exhibits in this class MUST have multiple parts, doors, hinges or some sort of mechanical feature. It must be 3-D printed using ONLY A COMMERCIALY AVAILABLE HOME/DESKTOP 3-D PRINTER. In addition, original design files must accompany each exhibit. These files must be in .STL format. Bring your design on a Jump Drive to be viewed for judging.

Exhibitors are expected to use the engineering design process to complete their designs. This process is important to the outcomes and exhibitors must keep a log outlining the step-by-step notes, sketches, and documentation from throughout the design and print process. The logbook should define the problem that is being solved/use of the object and describe in detail each step of the Engineering Design Process taken during the creation of the invention.

3-D Printing & Design Ready4Life Challenge (not eligible for State Fair)

Open to 11- to 18-year-olds enrolled in any 3-D project

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

3-D Print & Design Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

UNMANNED AERIAL VEHICLES/SYSTEMS (DRONES): Choose one of the following classes based on your interest and skill level.

UAV Display (not eligible for State Fair)

Prepare a display related to the Drones/UAV project on the topic of your choosing. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Non-UAV/ Drone projects should not be entered in this class.

UAV Unmanned Aerial Systems (not eligible for State Fair)

Exhibit one Unmanned Aerial Vehicle and associated system assembled or made by the member. UAV or Drone exhibits in this class must be either originally designed or built from a kit of reconfigurable parts and components. These displays are limited to multicopters (tri, quad, hex, and octocopters), as well as FPV airplanes and flying wings with wingspans up to 36". The UAV **MUST** have a Flight Controller and utilize a camera/video transmission system. The exhibit will be a static display. The Drone should be in good flying condition with batteries fully charged, and all UAS components (including Video System) ready to demonstrate. **DO NOT** display your UAV with the propellers on, but rather on the table to the side of your UAV. The Drone will not be flown unless the weather permits, and flights have been approved by the local FAA/Air Traffic Control Tower. Attach the printed directions of the UAV if any were used.

UAV Ready4Life Challenge (not eligible for State Fair)

Open to 11- to 18-year-olds enrolled in any UAV project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

UAV Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

THEATRE ARTS

Each county may 3 entries total for 50299, 50301, 50302; and 1 entry for 50304.

Theatre Arts 1: (SF 50299)

Exhibit one of the following items:

Portfolio of acting activities completed during the current year (A video of performances is not considered a portfolio and will not be accepted for exhibit.); **OR**

Display illustrating a drawing/photograph of a clown character created by the exhibitor; **OR**

Display illustrating a picture story developed by the exhibitor.

Theatre Arts 3: (SF 50301)

Exhibit one of the following items:

Portfolio of activities for set design; make-up; or sound, props, or costuming completed during the current year; **OR**

Display that includes sound, props and costume charts appropriate for a selected scene from a story or play (limited to no more than 8 items); **OR**

Display a scenic design model to depict a scene from a script; **OR**

Display illustrating a character with make-up drawn or colored in. Include a photograph of a person wearing the make-up and information on the character's personality or part in the play.

Theatre Arts Innovation Class: (SF 50302)

Open to youth enrolled in Theatre Arts.

Demonstrate the skills and knowledge you have gained through Theatre Arts project. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Theatre Arts Ready4Life Challenge: (SF 50304)

Open to 11- to 18-year-olds enrolled in any Theatre project

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Theatre Arts Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

TRACTOR

Each county may submit 2 entries total for 50306, 50307, 50308, 50309, 50310; and 1 entry for 50312.

Tractor A: (SF 50306)

Exhibit a display or poster that illustrates one of the following topics: tractor safety; care and maintenance; the tractor as a valuable farm machine; or an activity listed in the project manual.

Tractor B: (SF 50307)

Exhibit a display or poster that illustrates one of the following topics: cause and prevention of rollovers, diagram how an air cleaner works, diagram & identify an engine cooling system, regulations for battery & oil disposal, or another activity listed in the 4-H project manual.

Tractor C: (SF 50308)

Exhibit a display or poster that illustrates one of the following topics: wagon and bin hazards, diagram and identify open and closed hydraulic systems, mower types and safety features conveyor types and safety features, or another activity listed in the 4-H project manual.

Tractor D: (SF 50309)

Exhibit a display or poster that illustrates one of the following topics: method of winterizing a tractor, chemical uses and required safety equipment, parts and process of internal combustion engine, procedure for cleaning and flushing tractor radiator, or another activity.

Tractor Innovation Class: (SF 50310)**Open to youth enrolled in Tractor A, B, C or D.**

Demonstrate the skills and knowledge you have gained through the Tractor project. This could be related to, but not limited to, advancements in technology, enhancements to crop production, or a topic of interest to the member related to tractors or farm machinery. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Tractor Ready4Life Challenge: (SF 50312)**Open to 11- to 18-year-olds enrolled in any Tractor project**

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Tractor Maker (SF 50400)**Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.**

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are HIGHLY encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also HIGHLY encouraged that exhibits use Open Source Software and/or Hardware in the build.

VETERINARY SCIENCE

Each county may submit 1 entry total from 50320; and 1 entry from 50322.

Veterinary Science 1: (SF 50320)

Prepare a display focusing on any activity related to the veterinary science project. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Veterinary Science 2: (SF 50320)

Prepare a display focusing on any activity related to the veterinary science project. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Veterinary Science 3: (SF 50320)

Prepare a display focusing on any activity related to the veterinary science project. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period. Live animals are not permitted as exhibits in this area. For safety reasons, exhibits cannot include glass, syringes with needles or any other sharp objects.

Veterinary Science Ready4Life Challenge: (SF 50322)

(Open to 11- to 18-year-olds enrolled in any Veterinary Science project)

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Vet Science Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

VIDEO/FILMMAKING

Each county may submit 3 entries total from 50324, 50325, 50326, 50327, 50328; and 1 entry from 50330. Enrollment in the Video project is required to exhibit in the classes in this section. Entries in 360° video may be enrolled in video/film or computer science projects.

All Exhibitors must bring their video to be judged on a USB flash drive and saved in .MP4 format. Exhibitors are encouraged to post their video on YouTube.com in advance of State Fair. Exhibitors may choose whether to make the video “public, unlisted” (someone must have the link to view it), or “private” (only people you choose may view it). This will allow fairgoers to view the exhibits on display. There will be monitors at the exhibit table for viewing videos so exhibitors will NOT need to bring a laptop or device for viewing.

Requirements that apply to ALL video classes:

Video submissions should be no longer than five (5) minutes in length (unless noted differently in class description.). Videos are to be original and a result of the member’s current year’s work. Criteria for judging shall include: (1) Evidence of story line; (2) Use of camera angles; (3) Use of zooming techniques; and (4) Smoothness of scene changes. Image and sound quality will be considered in relation to equipment available to and used by exhibitor. All videos should comply with copyright regulations and display an image that is appropriate for 4-H audiences. No time or date should be imprinted on the video footage. All videos should include an opening title screen, as well as closing credits which include date of production, name of video exhibitor and research sources if appropriate. **All Video/Filmmaking exhibitors must include a printed copy of materials which will remain on display.**

Commercial or Promotional Video: (SF 50324)

Prepare a short video (30 seconds to 1 minute in length) that promotes an event, advertises a specific project/product, or is a public service announcement. The video should demonstrate skills in making and editing video.

Animated Video: (SF 50325)

Video in this class should represent creative animation of original artwork created by the exhibitor and may include stop motion techniques. Media might include images created with graphics software or hand-drawn images.

Documentary: (SF 50326)

Video in this class should represent a research-based investigation into a topic of choice. Video credits should list research sources and may include paper or electronically published materials, as well as, and/or interviews with experts or constituents related to the topic of investigation.

Short Story or Short Narrative: (SF 50327)

Prepare a short video that tells a story. The video should demonstrate skills in making and editing video.

Video/Filmmaking Innovation Class: (SF 50328)

Open to youth enrolled in Video/Filmmaking.

Demonstrate the skills and knowledge you have gained through the Video project. **Your exhibit should not fit in the other exhibit options for this project.** The exhibit may include, but isn’t limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you’ve learned. Your exhibit should not fit in the other exhibit options for this project. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Video/Film Ready4Life Challenge: (SF 50330)

Open to 11- to 18-year-olds enrolled in any Video/Film project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Video Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

WEATHER

Each county may submit 1 entry total 50392, 50393, 50394; and 1 entry from 50395.

Weather and Climate Science I: (SF 50392)

Exhibit any product or display illustrating an activity from the book. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Weather and Climate Science 2: (SF 50393)

Exhibit any product or display illustrating an activity from the book. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Weather and Climate Science 3: (SF 50394)

Exhibit any product or display illustrating an activity from the book. The exhibit may include, but isn't limited to, original works, objects, demonstrations, digital presentations, programs, websites, games, apps, performances, or posters which you have made. Choose whatever method best shows what you've learned. You must furnish any equipment you need for your exhibit. Internet service will not be provided for the exhibit. All exhibits must include something visual, such as a printed copy of a digital presentation, which will remain on display during the exhibition. Electronic equipment will only be used during your personal judging time and will not remain on display during the entire exhibit period.

Weather Ready4Life Challenge: (SF 50395)

Open to 11- to 18-year-olds enrolled in any Weather and Climate project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Weather Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project MUST abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and MUST be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device MUST be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit MUST be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits MUST include a detailed build log with instructions on how to make or build the exhibit, AND contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build MUST be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

WELDING

Each county may submit 2 entries total from 50353; and 1 entry from 50355.

Welding: (SF 50353)

This exhibit class is open to members who are in the 7th grade and higher. Exhibit one Arc weldment/item demonstrating the skill level of the exhibitor. Members new to the project should consider selecting a weldment from the suggested Weldment List found on page 43 of *Arcs and Sparks* (4-H 573 – Shielded Metal Arc Welding). **This class is for industrial welding only.** (Members that wish to use welding to create objects with an artistic appeal should consider enrolling in the 4-H Visual Arts project and consider entering those types of exhibits in the Visual Arts – Metal class.) Exhibits must be portable and cannot be exhibited on a trailer.

Welding Ready4Life Challenge: (SF 50355)

(Open to 11- to 18-year-olds enrolled in any Welding project)

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Welding Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

WOODWORKING

Each county may submit 2 entries total from 50357, 50358, 50359, 50360; and 1 entry from 50362.

Woodworking 1: (SF 50357)

Any item made of wood constructed or refinished by the member, appropriate for their age, skills and ability in this project. Pre-cut kits assembled by the member are not acceptable. Exhibits must be portable and cannot be exhibited on a trailer.

Woodworking 2: (SF 50358)

Any item made of wood constructed or refinished by the member, appropriate for their age, skills and ability in this project. Pre-cut kits assembled by the member are not acceptable. Exhibits must be portable, and cannot be exhibited on a trailer. (Exhibitors will be allowed to drive to the 4-H Tents for drop-off and pick-up of these exhibit items.)

Woodworking 3: (SF 50359)

Any item made of wood constructed or refinished by the member, appropriate for their age, skills and ability in this project. Pre-cut kits assembled by the member are not acceptable. Exhibits must be portable, and cannot be exhibited on a trailer. (Exhibitors will be allowed to drive to the 4-H Tents for drop-off and pick-up of these exhibit items.)

Woodworking 4: (SF 50360)

Any item made of wood constructed or refinished by the member, appropriate for their age, skills and ability in this project. Pre-cut kits assembled by the member are not acceptable. Exhibits must be portable, and cannot be exhibited on a trailer. (Exhibitors will be allowed to drive to the 4-H Tents for drop-off and pick-up of these exhibit items.)

Woodworking Ready4Life Challenge: (SF 50362)

(Open to 11- to 18-year-olds enrolled in any Woodworking project)

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Woodworking Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogramed to perform a different function other than what it was designed to do
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

VISUAL ARTS PROJECTS



Visual Arts Food Decorating Beginning (SF 50332)**Exhibit one of the following:**

- Exhibit four decorated cookies, using a minimum of four different techniques. Exhibit may use cookies OR cookie forms.
- Exhibit four decorated cupcakes, using a minimum of four different techniques. Exhibit may use cupcakes OR cupcake forms.
- Exhibit a single layer decorated cake, using a minimum of four different techniques. Exhibit may use cake OR cake form.

Visual Arts Food Decorating Intermediate (SF 50333)**Exhibit one of the following:**

- Exhibit four decorated cookies, using a minimum of five Level 2 techniques. Exhibit may use cookies OR cookie forms.
- Exhibit four decorated cupcakes, using a minimum of five Level 2 techniques. Exhibit may use cupcakes OR cupcake forms.
- Exhibit a single layer or two-layer cakes, using a minimum of five Level 2 techniques. Exhibit may use cake OR cake form.

Visual Arts Food Decorating Advanced (SF 50334)

Exhibit a decorated, stacked and/or tiered cake, using a minimum of four Level 3 techniques. Exhibit may use cake OR cake form.

Visual Arts Food Decorating Master (SF 50335)

Exhibit to include a one-page written description of your project, including goals, plans, accomplishments, and evaluation of results. Include up to four pictures of your accomplishments **AND** exhibit an original design decorated cake using more than five techniques. Exhibit may use cake OR cake form.

Visual Arts Chalk/Carbon/Pigment: Enter the division based on the type of material the art was created.

Division A: Canvas, Paper, Glass: (SF 50336)

Any original art work done with pencils, chalk, pens, ink, paint, charcoal, dyes, etc. on canvas, paper, or glass. This would include all painting, sketching, drawing, cartooning, printing, etc. Painted and/or glazed pre-formed ceramics and painted porcelain dolls are not eligible for State Fair exhibit. Drawings and paintings should be matted or framed under glass. (Exceptions: Oil and acrylic paintings do not require glass and are not required to be matted.) Water color, chalk, pen & ink, computer-generated art, etc. do require some protective covering. Gallery frames are acceptable. Canvas paintings that continue “over the edges” are acceptable without frames; however, the piece must still be prepared for hanging. Matted pieces without frames are acceptable, however the piece must be prepared for hanging OR it must include a photo of the artwork being displayed in a non-hanging manner. There is no specific requirement for the type of mat used.

Division B: Wood, Metal, Textiles: (SF 50352)

Any original art work done with pencils, chalk, pens, ink, paint, charcoal, dyes, etc., on wood, metal, or textiles. Painted and/or glazed pre-formed ceramics and painted porcelain dolls are not eligible for State Fair exhibit. Any exhibits created as a piece of wall art must be prepared for hanging.

Visual Arts Clay: (SF 50337)

Any original item made of clay; may be fired or unfired, hand formed or thrown on a wheel. Self-hardening clays are fine. Fire/oven-cured and cornstarch clay could be accepted. Items can include, but are not limited to, clay statues, bowls, jewelry, etc. Pre-formed ceramics are not eligible for State Fair exhibit.

Visual Arts Computer-Generated Art: (SF 50338)

Any original art created in any software package. Exhibit may not include scanned work, clip art, downloaded images from the internet, any imported image, or photographs. All pixels must be original. Photo mosaics are NOT allowed. Exhibitors in this class (like all other classes in this sub-section) must be enrolled in Visual Arts; Computer project enrollment is not required. NOTE: Wood and metal exhibits created through the use of laser cutting programs/devices should be entered in this class. Plastic exhibits with an artistic focus created using a 3-D printer should be entered in this class. If the art created is designed to hang, then the entry should have some protective covering, such as a glass frame, and prepared for hanging. If the art is something that has been created with a laser cutting program/device and is NOT designed to hang, it does not require protective covering nor does it need to be prepared to hang.

Visual Arts Fiber: (SF 50339)

Any original item made of fiber. Examples are quilts, fabric collage, soft sculpture, stitchery, weaving, embroidery, cross-stitch, wearable art, hooking, braiding, duct tape artistry, and baskets. **Original** cross-stitched, knitted, crocheted or quilted items belong in this Fiber class. **Non-original** cross-stitched, knitted, crocheted or quilted items should be entered in Heritage Arts. Machine knitted items are not appropriate for this class.

Visual Arts Fiber Non-Original AGES 8-10 ONLY: (SF 50350)

Any non-original item made of fiber. Examples are fabric collage, soft sculpture, stitchery, weaving, embroidery, cross-stitch, crocheting, knitting, weaving, hooking, and felting. Exhibitors may use a pattern and/or an idea generated from another source.

Visual Arts Glass/Plastic: (SF 50340)

Any original item made of glass or plastic. Possible items to exhibit include stained glass, etched glass (original design), mosaics made of glass, glass beading, plastic jewelry (friendly plastic). Interlocking building block creations (i.e. LEGOS) are not suitable for State Fair entry. Stepping stones or wall hangings that include cement decorated with glass or plastic items are not suitable for this class.

Visual Arts Heritage Arts: (SF 50341)

Exhibit an item of **traditional** art learned from another person or **from a pattern** (NO KITS) may be entered in this class. Non-original cross-stitched, knitted and crocheted items by pattern fit in this class. ALL ORIGINAL cross-stitched, knitted and crocheted items should be exhibited in Fiber Arts; (machine knitted items ARE NOT acceptable for this class.) Other possibilities include: needlepoint, counted cross-stitch, crewel, embroidery, cut work, hardanger (embroidery openwork), macramé, baskets, candles, pysanki (decorated eggs), leather, quilts, baskets (made using a traditional pattern), traditional handmade dolls with handmade costumes, or candles. No machine quilting allowed in Heritage Arts. Exhibitors must also bring 1) the pattern or a copy of the pattern they used to create their traditional art; and 2) a description of the traditional origins of their art choice.

Visual Arts Metal: (SF 50342)

Any original item made of metal such as sculpture, tin punch, engraved metal, and jewelry. Items intended for industrial use (as tools and/or shop items) are not considered part of this Visual Arts project and are not eligible for entry. Metal items that have been partially or totally created through the use of laser cutting programs/devices should be entered in Computer-Generated Art.

Visual Arts Nature: (SF 50343)

Any original item made of natural material such as wreaths, cornhusk dolls, etc. Items should be made of natural materials (which may be purchased) but securing elements such as glue and wire may be used in the inner construction as long as they do not detract from the overall "natural" appearance. Articles such as dried pressed flowers may be displayed under glass since it is necessary for protection/preservation of the natural materials. Candles are not suitable as entries. All baskets should be entered in Heritage Arts.

Visual Arts Paper: (SF 50344)

Any original item made of paper. Examples could include origami; greeting cards; paper-cut designs, paper mache, hand-made paper, paper collage, paper models of architecture, quilling, etc. Paper twist articles, made from directions in craft books and stores ARE NOT original and are not appropriate for this class. Scrapbooks should be exhibited in Visual Arts Scrapbooking.

Visual Arts Scrapbooking, Beginning: (SF 50345)

Exhibit one album or notebook, either 8 ½" x 11" or 12"x12", with a front and back cover. The album/notebook must have a minimum of 4 pages (front and back, 8 sides), exhibited in page protectors. "Embellishments" are defined as the decorations or special details and features that add to a page and make it more visually appealing. Embellishments may include, but are not limited to, ribbon, clips, special lettering, etc. Beginners must use a minimum of four embellishments and tell a story with pictures.

Visual Arts Scrapbooking, Intermediate: (SF 50346)

Exhibit one album or notebook, either 8 ½" x 11" or 12"x12", with a front and back cover. The album/notebook must have a minimum of 4 pages (front and back, 8 sides), exhibited in page protectors. "Embellishments" are defined as the decorations or special details and features that add to a page and make it more visually appealing. Embellishments may include, but are not limited to, ribbon, clips, special lettering, etc. Intermediate level exhibitors must use a minimum of eight embellishments and tell a story with pictures and journaling.

Visual Arts Scrapbooking, Advanced: (SF 50347)

Exhibit one album or notebook, either 8 ½" x 11" or 12"x12", with a front and back cover. The album/notebook must have a minimum of 4 pages (front and back, 8 sides), exhibited in page protectors. "Embellishments" are defined as the decorations or special details and features that add to a page and make it more visually appealing. Embellishments may include, but are not limited to, ribbon, clips, special lettering, etc. Advance level exhibitors must use a minimum of 12 embellishments and tell a compelling story with pictures, journaling, and other media.

Visual Arts Three-Dimensional Design/Mixed Media: (SF 50348)

Art pieces in this class must be comprised of **at least three different media**. No one medium can make up more than 40% of a piece. The piece should be **free-standing** (not meant to be hung) that is observable on at least three different sides. Originality and design are important concepts. Craft and preformed or assembled projects are not acceptable.

Visual Arts Wood: (SF 50349)

Any original item made of wood (wood carving, sculpture, collage, wood burning, etc.). Utilitarian wood items made from patterns or kits (e.g. outdoor or indoor furniture, shelves) should be entered in woodworking, not in visual arts. Popsicle stick crafts are not acceptable for State Fair entry. Wood items that have been partially or totally created through the use of laser cutting programs/devices should be entered in Computer-Generated Art. All Visual Arts Wood exhibits **MUST** have an artistic element that the exhibitor can explain. Furniture built by the exhibitor aligns with the Woodworking project area – unless the element to be judged is wood carving or wood burning that is one element of the exhibit. Exhibits will be judged using a Visual Arts Rubric and not a woodworking construction rubric.

Visual Arts Ready4Life Challenge: (SF 50351)

Open to 11- to 18-year-olds enrolled in any Visual Arts project.

Exhibits in this category must include the following: a) a physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work; b) verbal or written explanations that demonstrate knowledge of the related career or business fields, potential careers, and the appropriate requirements for achievement in those fields. The judging criteria for this class values thoroughness of career and/or business exploration and pursuit above the workmanship of the physical specimen on display.

Visual Arts Maker (SF 50400)

Counties may submit 3 entries TOTAL combined from all Maker exhibit divisions.

Exhibits in this category are designed to be multi-disciplinary in nature, innovative, and must not fit into any other exhibit category. To qualify for this category, your project **MUST** abide by the following guidelines:

- Exhibits must be an object or device that has an intended purpose and uses technology in either a mechanical way, digital (computer) way, or combination of the two.
- The device must be something that can be used in everyday life by multiple people (a target audience), and **MUST** be manufactured/built by the exhibitor (If not fully manufactured by the exhibitor, the device **MUST** be modified structurally or be reprogrammed to perform a different function other than what it was designed to do)
- Exhibit **MUST** be able to interact with the outside world. (e.g. an on off switch, input sensors, feedback, etc.)
- Exhibits **MUST** include a detailed build log with instructions on how to make or build the exhibit, **AND** contain either a 3D rendering or detailed and labeled sketches of the device/product.
- All parts and software used in the design/build **MUST** be listed in a detailed Bill of Materials including cost per item and total cost. Total time spent on the build must be documented in your build log.

In addition, exhibitors are **HIGHLY** encouraged to use tools such as 3-D printers, laser cutters, routers and/or other hand/power tools to help in the manufacturing process (**NOTE: Simply 3-D printing or laser cutting an object without the other specifications does not qualify as a Maker Project**). It is also **HIGHLY** encouraged that exhibits use Open Source Software and/or Hardware in the build.

Non-Original Visual Arts Projects

Chalk/Carbon/Pigment, Non-original

Any non-original work done with pencils, chalk, pens, ink, paint, charcoal, dyes, etc. This would include all non-original painting, sketching, drawing, printing, etc. Articles made by simply changing the color, pattern and/or size of the pattern, or articles made using patterns or pictures from magazines as starting points are NON-original.

Acrylics -

Oils and Watercolors -

Cartoons - **Remember that COPYRIGHTS and TRADEMARKS are not allowed**, so NON-original would be following an example from a drawing book to make a cartoon-like character but not a trademarked one such as Mickey Mouse or something from the comics.

Stenciling, Stamping & Printing - To be NON-original: Any artwork made using purchased stamps

Pastels, Chalk, Charcoal -

Pen & Ink, Pencil, Markers, Calligraphy - This category may include colored pencils, crayons, watercolor pencils.

Painted Plaster - To be NON-Original: Painting a preformed plaster piece.

CCP Other - Any NON-Original artwork using combinations of various Chalk/Carbon/ Pigment categories that does not fit into the above individual categories.

Clay, Non-original

Preformed ceramics. Greenware must be cleaned and decorated by the member. Any of the following techniques may be used: opaque or translucent stains; fired-on decals; crystal glaze; colored glazes; under glazes; chalks; sciafito; hand-formed add-on artwork, etc. After doing any of the above techniques, ceramic piece can be kiln-fired. Sculpey and fimo clays would be included in this area; please note: check the label to determine if the material is clay or plaster. (Plaster pieces belong in class Chalk/ Carbon/ Pigment-Painted Plaster.)

Computer-Generated Art, Non-original

Any computer artwork containing clip art, scanned work or downloaded images from the Internet, any imported image or photographs. **Remember that COPYRIGHTS and TRADEMARKS are not allowed. Laser cuttings made from a program are non-original.**

NOTE: Wood and metal exhibits created through the use of laser cutting programs/devices should be entered in this class.

Fiber, Non-original

Fabric items made from kits and machine-knitted items would go here.

Glass/Plastic, Non-original

Any item made from Glass or Plastic following a pattern or made from a kit. **Interlocking building block creations may be entered here. Stepping Stones or wall hangings that include cement decorated with glass or plastic items would belong here.**

Metal, Non-original

Any item made from a kit or following a pattern. **Items intended for industrial use (as tools and/or shop items) are not considered part of this Visual Arts project and are not eligible for entry. Metal items that have been partially or totally created through the use of laser cutting programs/devices should be in Class #50338 Computer-Generated Art.**

Nature, Non-original

Any article made of natural materials from a kit or following a pattern.

Paper, Non-original

Articles made from kits with paper, twisted paper or other articles made from directions in craft books or stores, or greeting cards made from purchased stamps, are examples of Non-original projects. Other examples could include origami, greeting cards, paper-cut designs, paper mache, hand-made paper, paper collage, paper models of architecture, quilling, etc. made from a pattern.

Three Dimensional Design / Mixed Media, Non-original

Craft and preformed or assembled projects would belong here.

Wood, Non-original

Kits, items made from pre-cut wood pieces, items made from Popsicle sticks or items made from patterns. Utilitarian wood items such as furniture or shelves should NOT be entered in Visual Arts. Wood items that have been partially or totally created through the use of laser cutting programs/devices should be entered in Class #50338 Computer-Generated.

TRADEMARKS are not allowed.

Miscellaneous, Non-original – NOT STATE ELIGIBLE

Any NON- original Visual Arts project that does not fit into the other visual arts categories made from a kit or following a pattern. Example: this could be a 2-D wall hanging that uses 2 or more medias such as wood and fiber or a painting that has incorporated fiber and metal.

LAKE COUNTY COUNTY PROJECTS

County projects are not eligible to receive premiums.



healthyfood@sport

LAKE COUNTY PROJECTS

NOT ELIGIBLE FOR STATE FAIR

County projects are not eligible to receive premiums

All GENERAL REGULATIONS Apply to County Projects.

NEW 2018 – ONLY FOR NEW COUNTY PROJECTS! If by chance, you are enrolled in any of the County level projects listed in your Illinois 4-H project list and you do not see a general rules/regulations area, please call the Extension Office for more details. 847-223-8627

1. Food and Nutrition classes will be judged on General Projects Judging Day with the exception of the following: Food Demonstration – which was judged with Public Presentation, on March 7, 2020.
2. Any recipe may be used unless otherwise specified in that project class.
3. To ensure freshness of foods, these exhibits will be accepted on the day of judging only.
4. All food entries and exhibit items must be prepared and exhibited by the 4-H member in a manner consistent with the specific directions outlined for each class. Instructions as to size, quantity, and manner of display should be followed exactly. Entries not complying will be dropped 1 rating.
5. **Exhibit tags** should be attached with readable portion on top, to the appropriate sized self-sealing plastic bag containing a single sized portion (or exact portion indicated in requirements for that class) of your exhibited food item. The food item should be on a sturdy plate (Styrofoam, or plastic).
6. **Photo** of the food item MUST also be attached to the self-sealing plastic bag.
7. All items must be labeled for the display and an inventory included on an index card. The card should also include 4-H'ers Name, 4-H Club Name, Food Project and Class/Category, and date.
8. Displays and/or poster boards must fit into a space not larger than 24" wide x 15" deep and if boards are needed, a tri-fold poster board is recommended. Standard science display boards fit into this size limitation – and display boards should have the ability to 'stand' on their own (which means a stable back support securely attached without additional support necessary). Member's Name, 4-H Club Name, Food Project & Class/Category, and date should display visibly on poster board.

NOTE: For any class that includes an Educational Display opportunity, the display must relate to the project area in which the member is enrolled. **Foods & Nutrition Education Displays must adhere to size restrictions listed in General Rule #5.** Perishable foods **MUST NOT** be included in the display. 4-Hers may use food models (commercially purchased or made by the individual), pictures from magazines, etc. Non-perishable items such as sealed canned products may be used. **For Education Displays, no commercial names should be visible on products used.**

FOOD DECORATING PROJECTS -Judging will be on Saturday, July 25 at the Lake County Fairgrounds / check in 8:30a.m. Judging at 9:00a.m.

Superintendent: Denise Eppel- email - deniseeppel72@gmail.com

General Rules for food decorating projects:

1. All cakes, cupcakes, cookies, and gingerbread may be home-baked, mixes are acceptable.
Cake & cupcake Forms may be used instead of home-baked items.
2. After judging, all food decorating projects will be displayed in the 4-H area with the ribbons for the fair week.
3. Cake boards cannot exceed 2" beyond the cake, and must be covered with foil and/or doily if not store purchased.
4. Cupcakes must be displayed on an 8" disposable styrofoam or plastic plate.
5. 1 entry for the Theme Cake and 1 entry for cupcake theme.
6. Each entry must have a 3"x 5" index card with the following information: Member name and list all tips and techniques. **(Must include a photo of finished project)**
7. **No purchased cakes, cookies or cupcakes will be permitted.**
8. Cakes and **cupcakes** will be displayed in the 4-H building for as long as appropriate during fair week.

Cake Decorating, Theme for 2020– "World Adventures"

Member must be currently enrolled in any level of Cake Decorating or Food & Nutrition Project and must follow the theme designated for the year. Form pans, giant cookies, cookie, and gingerbread houses may be used. Submit an index card with entry listing all tips and techniques and a photo of finished project. This class emphasizes creativity and originality. **Cake Forms are acceptable.**

Cupcakes, Theme for 2020 - "Holidays"

Member must be currently enrolled in any level of Cake Decorating or a Food & Nutrition project, and must follow the theme designated for the year. Cupcakes must be traditional sized, with or without wrapper. No mini-sized or pan-formed cupcakes. **Submit four (4) identical or different** cupcakes on a plate and an index card listing all tips and techniques and a photo of finished project. This class emphasizes creativity and originality. **Cake Forms are acceptable.**

3D Gingerbread structure decorating

Member must currently be enrolled in any level of Cake Decorating or Food & Nutrition Project. Submit an index card with entry listing all tips and techniques used and a photo of the finished project. Use a sturdy board for your project. There is no theme for the Gingerbread class. This class emphasizes creativity and originality.

3D Gingerbread A) - Non-Original (kit)

3D Gingerbread B) - Original
(homemade)

Cookie Decorating

Member must currently be enrolled in any level of Cake Decorating or Food & Nutrition Project. Submit an index card with entry listing all tips and techniques used and a photo of the finished project. Submit three (3) **identical** cookies on a plate. There is no theme for the Cookie class. No cookie cakes are allowed. This class emphasizes creativity and originality.

FAVORITE FAMILY RECIPE

General Rules for Favorite Family Recipe:

All Food and Nutrition regulations pertain to these classes.

Member must bring a picture of the dish prepared. Display during the fair will include only the picture, recipe and the menu along with the ribbon.

Tasting of dishes is left to the discretion of the judge(s).

My Favorite Family Recipe, Beginning

Include recipe and a menu for a balanced meal using this item.

My Favorite Family Recipe, Intermediate

Include recipe and a menu for a balanced meal using this item.

My Favorite Family Recipe, Advanced

Include recipe and a menu for a balanced meal using this item.

READING

General Rules for Reading:

Write a three to four sentence summary of the exhibit on an index card. Include the book title and author, underline the title. Also include your name, club name, project, number of years in project, age, and the date on your index card.

Exhibit one of the following:

- A shadow box or shoe box display to illustrate the setting of the book
- A poster no larger than 23"x30" to advertise the book in an artistic way
- A puppet to depict a character from the book
- A map no larger than 23"x30" depicting a character's travels or an area explained in the story
- Present a timeline book review
- Illustrate three or more favorite scenes from the book
- Design character paper dolls with wardrobes
- Display and explain foods used by the character(s)

SPORTS NUTRITION (Group)

General Rules for Sports Nutrition:

All displays should fit into an area no larger than 2' wide x 15" deep. Standard science display boards fit into this size limitation – and display boards should have the ability to 'stand' on their own (which means a stable back support securely attached). A club that has completed Sports Nutrition as a group should prepare a display related to 3 activities they have completed in the project. The display must be manned by 3 or more club exhibitors at the time of conference judging. Club members should make a 5-10 minute presentation to the judge. All club members present for the judging should be able to discuss the project and answer questions.

EXPLORATORY

EXPLORATORY (*Welcome to 4-H*) (not eligible for state fair)

Youth ages 8 – 10 may exhibit a display on one of the following topics from the project book.

windowsill gardening;

4-H animals;

4-H family; **OR**

coat of arms

COLLECTIBLES (not eligible for state fair)

Bring your completed project book and your collection or examples of your collection (if it's too large to bring) with pictures of total collection, OR an exhibit or poster illustrating one feature of the project.



LAKE COUNTY CLOVERSBUDDS 5-7 YEARS OLDS

CLOVERBUDS

Show and Tell - Wednesday, July 24, 2020, 6:00 p.m. /4-H Fair exhibit area Family and Friends are invited to attend.

Refer to the specific project section to review the requirements.

CLOVERBUDS

General Rules for Cloverbuds:

1. The following classes are for youth enrolled in an active Cloverbud Club, for ages 5 – 7 years old.
2. Cloverbud classes and displays are non-premium classes. Participation ribbons will be awarded to each Cloverbud member.
3. Cloverbud group displays may be brought to Visual Arts or General Projects judging at the Fairgrounds to be displayed during the fair.
4. Since Cloverbuds are not judge we want to offer them the opportunity to share what they learned with a compassionate adult (beginning steps in conference judging) an area will be provided for parents to watch and wait. **(this is not mandatory but highly encouraged so we can showcase our Cloverbud's accomplishments.)**
5. A parent or guardian must be present at all times at the show/display with the Cloverbud.
6. All Cloverbud classes must follow all 4-H show requirements in the Fairbook for the current year. Refer to the specific project section to review the requirements.
7. **All exhibits are to be removed from the 4-H area on Sunday, August 2, 2020 . Members unable to remove their exhibits are responsible for arranging them to be removed by a leader or another member.**

CLOVERBUD INDIVIDUAL DISPLAY

Cloverbud members are encouraged to prepare a display illustrating an activity or item from any of the Cloverbud curriculum listed below:

- Aerospace 1
- Bicycle 1
- Cloverbud Series 1
- Cloverbud Series 2
- Embryology 1
- Exploring 4-H Group Activities
- Exploring Farm Animals
- Health-It's Your Choice
- Latino Cultural Arts
- Step Up to Leadership 1
- Vegetable Gardening A
- Veterinary Science 1
- Welcome to 4-H (1-3)

Cloverbud Group Display

A Cloverbud group should prepare a display of activities made from a Cloverbud curriculum. Displays are prepared jointly by the membership. A table area of approximately 2 ½' x 2 ½' will be available for the display.

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4-H General Projects & Visual Arts Awards & Ribbons

A **Category** is a group of classes, ex: Child Development, Foods, and Visual Arts.

A **Class** is one part of the category, ex: Cooking 101, Cooking 201, Chalk/Carbon/Pigment, Clay, and Metal.

General Projects

Each Class will be awarded 1 Grand & 1 Reserve as seen fit by the judge.

Each Category, including County Projects, will be awarded 1 Best of Show, with the exception of Foods & Photography which will be awarded 2 Best of Show ribbons as seen fit by the judges.

State Fair Delegates and Alternates will be selected at the discretion of the judges. The number of State Fair entries allowed for each category is listed in the 2020 Lake County Fair Book.

Visual Arts

Each Class, Original & Non-Original, will be awarded 1 Grand & 1 Reserve.

State Fair Delegates & Alternates will be awarded at the discretion of the judges. The number of State Fair entries allowed for each category is listed in the 2020 Lake County Fair Book.

Best of Show ribbons will be awarded by the discretion of the judges.

12 will be awarded within Original Visual Arts

6 will be awarded within Non-Original Visual Arts as the judges see fit, depending on the number of entries.

Rules & Regulations taken from the 2020 Lake County Fair Book:

Grand, Reserve and Best of Show ribbons (called competitive ribbons) will be awarded regardless of the age of the exhibitor at the discretion of the judge.

Competitive ribbons and state fair delegates are at the discretion of the judges. Extension Staff has the right to remove a project and/or change a ribbon due to project not meeting judging criteria.

4-H judges have been carefully selected. All persons entering and exhibiting in the 4-H Show agree to abide by the decisions of the judges.

Protest upon any grounds must be made in writing and given to the appropriate superintendent no later than 6:00p.m. on the day of the show in question. The superintendent will present such protest to the Lake County Extension Staff and a youth committee for consideration. The joint decision of the superintendent and committee will be final.

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