

Bringing STEAM to youth in Livingston, McLean & Woodford Counties

# **STEAM** RESOURCE CATALOG



Extension

COLLEGE OF AGRICULTURAL, CONSUMER & ENVIRONMENTAL SCIENCES



University of Illinois | U.S. Department of Agriculture | Local Extension Councils Cooperating University of Illinois Extension provides equal opportunities in programs and employment. If you need a reasonable accommodation to participate in this program, please contact us. Early requests are strongly encouraged to allow sufficient time for meeting your access needs.

# **LEARN BY DOING**

### WHO can use these resources?

Educators like you! These FREE resources are provided to allow all educators the opportunity to engage youth through hands on learning experiences that promote learning by doing!

## WHAT can I find in this resource catalog?

This resource catalog details all of the FREE resources we have available for checkout. Resources are organized alphabetically, as well as in an index with grade level and popular topics. Kits come complete with lesson plans, supplies, books, and even ideas for expanding on the lessons.

## WHERE can I use these resources?

These resources can be used in the classroom or a club meeting to provide an educational opportunity within the community. We appreciate your cooperation with cultivating the minds of youth in Illinois and bringing more awareness to topics in Science, Technology, Engineering, Agriculture, Art, and Mathematics (STEAM).

### WHEN can I get the resource?

If you would like to reserve a resource, please call or email the McLean County Extension Office at 309-663-8306 or maggielr@illinois.edu. When reserving resources, please give notice at least 2 weeks prior to the desired checkout date.

### WHY don't I see what I need?

If you have a need for a resource you do not see listed, please call or email the McLean County Extension Office at 309-663-8306 or maggielr@illinois.edu. We would love to work with you!

## HOW is this all free?

All of the resources mentioned in this catalog are FREE to educators to utilize. In return, we only ask for you to fill out a voluntary demographic survey (found on page 22) which allows us to maintain our federal funding in order to continue future programming.



COLLEGE OF AGRICULTURAL, CONSUMER

Extension

# **RESOURCES FOR ALL AGES**

	Fuges.
Daycare and Preschool Resources	3
Kindergarten-2nd Grade Kits by Topic	4
3rd-5th Grade Kits by Topic	5
6th-12th Grade Resources	6
Kit Descriptions	7-16
Literary Resources	17
Checkout Policy	17
Professional Development	18
Unit Collaboration	18
STEAM in the Classroom	19
Grant Opportunities	20
Other Extension Resources	21
4-H Youth Program Information Form	22

Danac



# DAYCARE AND PRESCHOOL

There is no age requirement for utilizing these resources. The list below is a compilation of resources we know work great with the younger age groups.

- Aero Garden<sup>®</sup>
- Apples
- Farm-to-Table
- Embryology Equipment
- Milk Magic
- Plants
- Pumpkins
- Rigamajig<sup>®</sup> Junior
- Soy Beanie Baby
- Very Hungry Caterpillar
- Water Cycle



Contact the McLean County Extension Office at 309-663-8306 to discuss more opportunities for bringing STEAM and 4-H into your classroom.

# **KINDERGARTEN-2ND GRADE**

### **Earth and Ecosystems**

- Aero Garden<sup>®</sup>
- Apples
- Farm-to-Table
- Life Cvcles
- Poultry
- Pumpkins
- Plant Enrichment
- Plants
- Trees 0
- Virtual Reality

## **Engineering Design**

- Junk Drawer
- Lego<sup>®</sup> 9656
- Lego<sup>®</sup> 9686
- Lego<sup>®</sup> 9689
- Lego<sup>®</sup> WeDo 2.0
- Lego<sup>®</sup> Boost
- Little Bits<sup>™</sup>
- Makey Makey®
- Paper Circuits
- Rigamajig<sup>®</sup> Junior
- Robotic Hand
- Sphero<sup>®</sup> Robots
- Virtual Reality

## **Light & Sound**

- DC Electrical Circuits
- Little Bits<sup>™</sup>
- Makey Makey<sup>®</sup>
- Ozobots<sup>®</sup>
- Paper Circuits
- Whacky Wheels

## **Push and Pull**

- Contraptions by KEVA<sup>®</sup>
- Eco Bot Challenge
- Lego<sup>®</sup> 9656
- Lego<sup>®</sup> 9689
- Motion Commotion
- Spin Bot
- Stomp Rockets •

### **Space Systems**

- Space
- Sky
- Sphero®Robots
- Virtual Reality

### **Structure & Function**

- Contraptions by KEVA<sup>®</sup>
- Junk Drawer
- Little Bits ™
- Paper Making



## Weather & Climate

- Aero Garden<sup>®</sup>
- Clouds
- Plants
- Soy Beanie Baby
- Virtual Reality
- Water Cycle
- Weather vs. Climate
- Wired for Wind

# **3RD-5TH GRADE**

## **Earth and Ecosystems**

- Aero Garden<sup>®</sup>
- Biofuel Blast
- Eco Bot Challenge
- Farm-to-Table
- Milk Magic
- Plants
- Trees
- Virtual Reality

## **Engineering** Design

- 3D Pens
- Contraptions by KEVA<sup>®</sup>
- DC Motors
- DC Electrical Circuits
- Junk Drawer
- Lego<sup>®</sup>9656
- Lego<sup>®</sup>9686
- Lego<sup>®</sup>9689
- Makey Makey<sup>®</sup>
- Motion Commotion
- Ozobots®
- Rigamajig<sup>®</sup>Junior
- Robo<sup>™</sup>E3 3D Printer
- Snap Circuits<sup>®</sup>
- Snap Circuits<sup>®</sup> Motion
- Sphero<sup>®</sup>Robots
- Spin Bot
- Stomp Rockets
- Whacky Wheels



## Energy

- Code your World
- Contraptions by KEVA®
- DC Motors
- Motion Commotion
- Paper Circuits
- Robotic Hand
- Snap Circuits<sup>®</sup>
- Sphero<sup>®</sup>Robots
- Whacky Wheels

### Forces & Interactions

- Contraptions by KEVA<sup>®</sup>
- DC Motors
- DC Electrical Circuits
- Lego<sup>®</sup> 9656
- Lego<sup>®</sup>9686
- Lego<sup>®</sup>9689
- Motion Commotion
- Snap Circuits<sup>®</sup> Motion
- Sphero<sup>®</sup> Robots
- Spin Bot
- Stomp Rockets

### Weather & Climate

- Clouds
- Eco Bot Challenge
- Virtual Reality
- Water Cycle
- Weather vs. Climate

## **Life Cycles & Traits**

- Apples
- Plant Enrichment
- Plants
- Poultry
- Pumpkins
- Virtual Reality

### Space Systems

- Sky
- Space
- Sphero<sup>®</sup>Robots
- Virtual Reality

# **6TH-12TH GRADE**

Although all of our kits are available to higher level grades (middle school and high school), we often find that these grade levels will utilize other resources that University of Illinois Extension has to offer. The following is a list of supportive resources that can help you and your students explore and expand on projects.

- Classroom Management
- Collaborative Projects
- College and Career Readiness
- Community Education & Engagement
- Expert Speakers
- Field Trips
- Financial Goals & Money Mentoring
- Leadership Skills
- Lesson Development and Planning
- Life Skills
- Mentoring Opportunities
- Social and Emotional Skills
- Teacher Trainings
- Team Building
- Technology



# We are here to help you!

Contact the McLean County Extension Office at 309-663-8306 for more information and to begin collaboration!

Do you have a lesson you would like to try but do not have the proper equipment? The following list of equipment is what we have available with or without lesson plans. For a description of each item, see the kit descriptions on the following pages. Please contact the McLean County Extension Office at 309-663-8306 or maggielr@illinois.edu to inquire about check out.

# Equipment:

- 3D Pens
- Aero Garden®
- Arduino<sup>®</sup>IoT Bundle
- Arduino<sup>®</sup>Uno
- Arduino<sup>®</sup> Ultimate Microcontroller Pack
- Button Maker
- Canon<sup>®</sup>VIXIA HFR10
- Illinois Rocks and Minerals
- Incubators, Turners, and Candlers
- Little Bits<sup>™</sup>
- Makey Makey<sup>®</sup>

- Netduino<sup>™</sup>
- Ozobots<sup>®</sup>
- Point and Shoot Cameras
- Raspberry Pi®
- Robo<sup>™</sup>E3 3D Printer
- Sewing Machine
- Soldering Iron
- Sphero<sup>®</sup>Robots
- VEX<sup>®</sup>Robotics
- Virtual Reality and 360° Camera



#### 3D Pens:

This set of nine 3D pens lets you print your ideas in 3 dimensions. With a variety of filament colors and templates to follow, the possibilities are endless!

#### Aero Garden<sup>®</sup> Grow Lights:

Aero Garden<sup>®</sup> Grow Lights can be utilized to grow plants in your classroom. This kit includes the lights, but does not include the pods. Size: 20H x 9.5W x 11D. For more information about the lights and other products related to them, visit www.aerogarden.com. Larger grow lights are also available.

#### **Apples**:

This kit includes all supplies needed to construct an apple chain which depicts the life cycle of an apple. In addition, the kit contains a resource binder, a class set of the book *Apples* by Gail Gibbons, and other apple literature.

#### Arduino<sup>®</sup>:

- Arduino<sup>®</sup> Uno is a beginner level kit. Arduino<sup>®</sup> is a platform for students new to coding and hardware design. It can also be used by experienced makers looking for a fast way to test and build hardware.
- The IoT Bundle is an introductory kit to get started with Internet of Things (IoT).
- Ultimate Microcontroller Pack comes with 100+ components to allow you to complete nearly any project! From beginners to advanced, users will appreciate all that this kit has to offer.

You can find more information about Arduino<sup>®</sup> and details about IoT projects and tutorials by visiting *www.arduino.cc.* 

#### **Bio-fuel Blast:**

This kit contains an experiment that explores the production of the bio-fuel ethanol. All of the supplies for the experiment are included in the kit.

#### **Cake Decorating:**

This kit has everything you need for a cake decorating lesson or activity. It includes: icing recipe cards, decorating bags, cake pictures, electric mixers, measuring spoons, rubber spatulas, plastic bowls, sifters, gel icing, sprinkles, candles, plastic spoons, wax paper, paper towels, cleaning brushes, candy decorations, and assorted icing tips.

#### **Canon<sup>®</sup> VIXIA HFR10:**

This HD camcorder records up to three hours of video to a 8GB internal flash drive or directly removable SD memory card.











#### Clouds:

This kit contains a set of 30 cloud viewers. Cloud viewers can be used to explore questions related to cloud classification, such as the formation of clouds and the water cycle. The included 3D cloud formation model will demonstrate cloud types.

#### Code your World:

Bring coding to life through games and interaction. This activity is simple enough even the most inexperienced can participate in computer science.

#### **Contraptions by KEVA**<sup>®</sup>:

Explore and test proportion and balance by building ball track structures. These contraption planks could be used for simple building in elementary grades up to advanced building at the junior/high school levels. The kit includes 600 planks, 6 KEVA<sup>®</sup> balls, and project ideas with guidance.

#### Direct Current (DC):

- Electrical Circuits Lab I: This kit introduces direct current and electrical circuits. It will demonstrate the flow of electricity and explain the concept of insulators and conductors. This kit includes all of the materials necessary to demonstrate and explain the content: light bulbs, batteries, wires, and a PowerPoint lesson.
- Electrical Circuits Lab II: This kit investigates further the behavior of direct current and electrical circuits. It will demonstrate the flow of electrical current in a circuit from the cell, through the wires, and through various combinations of light bulbs and 3 resistors. This kit includes all of the materials necessary to demonstrate and explain the content: light bulbs, batteries, wires, and switches.
- Motor Lab: Investigate the relationship between electricity and magnetism. This kit includes all of the materials necessary to demonstrate and explain the concept of direct circuit motors: magnets, wire, batteries, and fixture boards.

#### **Drawdio**:

This is an electronic pencil that lets you make music while you draw. It is a great circuit project for beginners. The kit comes un-assembled with all of the electronic components: PCB, hardware and pencil.







#### Eco Bot Challenge:

An Eco Bot is a robot that is designed to preserve and protect the environment. Students will build simple toothbrush Eco Bots. and test their Eco Bots' ability to clean up spills.

#### Farm-to-Table:

This kit comes complete with all of the necessary materials for hands-on activities and literature related to planting, corn, soybeans, cows, and pigs. Class sets of *Farming*, *The Vegetables We Eat*, *Corn*, *Ice Cream*, & *Pigs* all books by Gail Gibbons are included with this kits. This kit works great as a unit but can also be used for individual lessons.

#### **Game Changers**:

This kit comes complete with three coding activities. These activities are perfect for first time and beginner coders.

#### **Illinois Rocks and Minerals:**

Over sixty Illinois rocks and mineral samples are included. Samples could be used for identifying, sorting, and discussing our state's geology, as well as rock formation.

#### Incredible Wearables:

This kit is a fun activity for kids to build wearable fitness trackers. Ideal for grades 4-12.

#### **Junior Solar Sprint**:

Making solar cars is fun and educational. Included in the kit are solar panels, motors, and enough supplies to let youth be creative with their imaginations.

#### Junk Drawer:

Similar to a mobile Maker Space, this kit includes a variety of objects typically found in a junk drawer at home. This kit is ideal for design and build challenges while introducing the basics of engineering. A Junk Drawer Facilitator kit is also available for instructional activity guides and tools.

#### LEGO<sup>®</sup> 9656 Early Simple Machines Set:

This DUPLO<sup>®</sup> brick assortment includes gears, levers, pulleys, wheels and axles, as well as plastic eyes, sails, scales, and wings. Teach early simple machines and problem solving skills to the youngest of learners.









#### LECO<sup>®</sup>9686 Simple & Powered Machines Set:

This brick assortment for exploring design engineering has more advanced mechanisms, structures and forces. Promote students' fundamental STEAM understanding of simple and powered machines, structures and mechanisms.

#### LEG0<sup>®</sup>9688 Renewable Energy Add-on Set:

Add this brick assortment to LEGO<sup>®</sup> 9686 Simple & Powered Machines Set or LEGO<sup>®</sup> Mindstorms EV3. Construct 6 real life models of renewable energy sources.

#### LEGO<sup>®</sup>9689 Simple Machines Set:

This simple LEGO<sup>®</sup> set contains a brick assortment of gears, wheels, axles, levers and pulleys. Teach basic physical science concepts with this introductory kit.

### LEGO<sup>®</sup>Boost:

Classic LEGO<sup>®</sup> building with advanced technology give you this LEGO<sup>®</sup> Boost kit. Use the included tablet and follow the step-by-step instructions to build, code, and play with 5 multi-functional models.

#### LEGO<sup>®</sup>Mindstorms:

- EV3: A robotics set allowing students to build, program and command their own robots.
- EV3 Expansion: This expansion set contains a wide range of structural and mechanical elements to augment the core set.
- Green City Challenge: With this add-on set you can take on the challenge of building an ecological town, using renewable energy.
- NXT: A programmable robot set with a smart microcomputer element and intuitive software allowing it to act like a real robot.
- NXT 2.0: A programmable robot set with intuitive software and upgraded capabilities. It has 3 interactive servo motors and 4 sensors guiding the robot's movements.

#### LEGO<sup>®</sup>WeDo 2.0:

Work through various science and engineering challenges with this robotic kit for beginners.







#### Life Cycles:

Teach about different life cycles of animals, insects and plants. Students will learn fun facts and try out some exciting activities.

#### Little Bits<sup>™</sup>:

- Little Bits<sup>™</sup>Deluxe is a platform of easy-to-use electronic building blocks that students can use to explore robotics. This is an ideal kit for educators who are just beginning to dive into the computing and engineering. No soldering, wiring or programming needed!
- Little Bits<sup>™</sup> Extended kit adds more modules to advance or add variety to the project build with the Deluxe kit.
- Gizmos and Gadgets kit comes with 13 electronic building blocks and instructions for 16 inventions. The bits snap together with magnets and are color coded for simple inventing.

#### Loom and Hook:

This kit contains a class set of loom frames, hooks, and plenty of loopers to practice weaving and create potholders. This is a great quiet time activity for your class.

#### Makey Makey<sup>®</sup>:

This class set of Makey Makey<sup>®</sup> devices will connect ordinary objects to computer programs. For more information, visit www.makeymakey.com.

#### **Milk Magic:**

Learn about milk and its chemical makeup. This hands-on lesson demonstrates the chemical separation of milk when soap is added while also teaches about surface tension. By using food coloring, this invisible process can be easily observed. All of the supplies for the experiment are included in the kit.

#### **Motion Commotion**:

This kit includes all of the materials necessary to conduct experiments that investigate the physical and human factors of motion by stimulating a car crash.

#### Netduino®:

Netduino<sup>®</sup> is very similar to Arduino<sup>®</sup>. The key difference is that it is programmed using Microsoft<sup>®</sup>Visual C#.NET programming language.











#### **Ozobots**<sup>®</sup>:

This class set comes with everything you need to introduce two coding methods to your students. Suitable for teaching coding, computer science, math, art, history, and more to grades K-12.

#### **Paper Circuits**:

The paper circuits kit teaches content related to electricity, conductive and insulating elements and is fun to watch artwork light up. This kit includes all of the materials necessary for a class to create paper circuits.

#### **Paper Making:**

This kit has all of the materials necessary for a class to make their own paper from start-to-finish.

#### **Plant Enrichment:**

This kit includes all of the materials necessary to study seed germination and growth.

#### Plants:

Learn about the life cycle of plants and the different parts of a plant with a giant hands-on flower model. This kit also includes supplies for every student to grow their own grass, learn the basics of seed germination and plant growth. A class set of the book *From Seed to Plant* by Gail Gibbons is included along with other plant literature.

#### Poultry:

This kit includes literature and activities to teach about chickens and embryology. Various supplemental kits are available in conjunction with the Chick it Out Program.

#### Pumpkins:

The pumpkin kit includes all of the materials necessary for a class to make pumpkin pie in a bag as well as all of the materials necessary to construct a pumpkin chain which depicts the life cycle of a pumpkin. Also included is a class set of the book *The Pumpkin Book* by Gail Gibbons, and other pumpkin literature.









#### Rain to Drain:

This hands on stormwater curriculum is ideal for junior high but can easily be adapted for either younger or older ages. The included experiments will lead students to better understand of the movement of stormwater in natural and developed communities

#### Raspberry Pi<sup>®</sup>Starter Kit:

This a small computer that plugs into a computer monitor and uses a standard keyboard and mouse to explore computing and programming in languages like Scratch and Python.

#### Rigamajig<sup>®</sup>Junior:

Using various Baltic birch planks and large plastic nuts and bolts, this kit allows for endless building opportunities. Facilitator guidance is available, however, this kit works great as open engineering.

#### **Robotic Hand**:

Using card stock, straws, and string we can make a functioning robotic hand. This kit includes all of the materials necessary for a class to complete this activity.

#### **Robo<sup>™</sup>E3 3D Printer**:

The safe, smart and easy-to-use features make this 3D printer perfect for the classroom. With lessons from K-12, this is great for any skill level.

#### Sky:

Look up at the sky and what do you see? Learn all about different stars, their importance, formations and more.

#### Snap Circuits<sup>®</sup>:

- Snap Circuit<sup>®</sup> kits offer an introduction to building electronics and the flow of electricity. Each kit contains four separate kits to demonstrate the content in a variety of ways.
- Motion: This kit contains three Snap Circuit Motion kits which give the opportunity to try over 165 projects all focused on motion and physics.









#### Soft Circuits:

This kit teachers content related to electricity, conductive and insulating elements, and is fun to watch creative designs light up. This kit allows you to sew, glue and create light up fabric artwork.

#### Soldering:

Available as an individual soldering iron or as a class set. Teach how to solder and assemble electronics. Includes a variety of projects to practice soldering and all of the necessary equipment.

#### Soy Beanie Baby:

Teach about the value of soybeans, seed germination, and the life cycle of a soybean.

#### Space:

This kit contains various engaging lessons and activities that will teach all about the planets, stars, and our moon.

#### Sphero<sup>®</sup> Robots:

Promote engineering, robotics, technology, coding and problem solving concepts for any age and skill level. This kit includes 12 Sphero<sup>®</sup> robots, 12 tablets, and access to lesson plans for K-12.

#### Spin Bot:

The Spin Bot is a kit that utilizes skills to follow directions and problem solve to assemble a drawing robot.

#### **Stomp Rockets:**

This kit has all the materials necessary for students to experiment with making and using stomp rockets. A stomp rocket is a flying figure rocket that is powered by compressed air.

#### Trees:

Learn about the importance of and the different kinds of trees. Three interactive lessons, grades K-10, are included along with tree literature.







#### VEX<sup>®</sup> Robotics Classroom & Competition Super Kit

Create mechanical functions, design advanced mechanisms and use sensors to increase robot feedback for advanced programs. Curriculum is available to use this kit for the basics of engineering all the way to a competitive robot classroom event.

#### Very Hungry Caterpillar

This kit includes one copy of the book *The Very Hungry Caterpillar* by Eric Carle, one puppet, and two different sets of large sequencing cards. This is great for a class reading activity.

#### Virtual Reality (VR)

The virtual reality kit includes devices for one leader and 15 virtual reality participants. This allows for endless possibilities with your virtual reality experience! A 360° camera is also included in this kit. Record 4K video and 360° spatial audio for a more realistic VR world. Utilize this camera to create 3D tours and much more!

#### Water Cycle

Learn more about the water cycle with color coded bead bracelets and supplemental picture books utilizing personification to describe the water cycle. This kit also includes a 3D water cycle model to create and observe each step in the water cycle. A class set of the book *Water Sources-Use-Conservation* by Nancy Carlson is included in this kit.

#### Weather vs. Climate

This kit contains a variety of hands-on investigations and activities about weather and climate. As class set of the book *Weather Words* and *What They Mean* by Gail Gibbons and additional literary resources are included.

#### Whacky Wheels

Explore and create with basic circuits. Lesson plans and challenges are included. This kit comes complete with a class set of Whacky Wheels along with LEGO<sup>®</sup> Classics to allow youth to expand their creations.

#### Wired for Wind

Design and build two types of wind turbines. Then, test them to determine which design is most effective. Experiment with different blade pitch angles to determine how each affects speed and performance. This kit includes all of the supplies needed to conduct the experiment.









# LITERARY RESOURCES & CHECKOUT POLICY

# **Literary Resources**

Many of the kits are already accompanied by a variety of literacy options. The list below is available for check out within a kit or just as a book collection for small groups or class sets. Please contact the McLean County Extension Office at 309-663-8306 or maggielr@illinois.edu to inquire about checkout.

- Apples by Gail Gibbons
- Corn by Gail Gibbons
- Cow by Jules Older
- Farming by Gail Gibbons
- From Seed to Plant by Gail Gibbons
- Ice Cream the Full Scoop by Gail Gibbons
- Oh Say Can You Seed? by Bonnie Worth
- Pigs by Gail Gibbons
- The Pumpkin Book by Gail Gibbons
- The Reasons for Seasons by Gail Gibbons
- The Vegetables We Eat by Gail Gibbons
- There's a Map on My Lap by Tish Rabe
- Water Sources-Use-Conservation by Nancy Carlson
- Weather Words and What They Mean by Gail Gibbons

# **Checkout Policy**

Although grade suggestions are given, none of these kits are bound to a specific grade level as they can be used to differentiate instruction as needed in order to incorporate STEAM into a youth development opportunity.

To maintain our funding, we ask that you fill out a voluntary youth information form for those impacted by our kits. A sample of this form can be found on page 22. All kits and equipment are to be returned in the same state in which they were checked out. Consumable items are replaced at the expense of the Extension office. Any lost or damaged pieces that are not considered consumable will be replaced at the expense of the party responsible for checking out the kit. If you have any questions about this policy please ask before signing the checkout receipt.

University of Illinois Extension legally obtained all of the resources listed with intention of educational purposes only. No portion of the resources may be duplicated without written consent from the Extension office. No endorsements implied or intended.

We are always working on new lessons to be able to provide as a checkout kit. Check **go.illinois.edu/LMW\_STEAM** for the most current Resource Catalog. Contact the McLean County Extension Office at 309-663-8306 or maggielr@illinois.edu for any questions or suggestions.



# PROFESSIONAL DEVELOPMENT & UNIT COLLABORATION

# **PROFESSIONAL DEVELOPMENT**

Teachers and community youth educators are invited to attend these FREE opportunities to practice bringing STEAM in the classroom. These workshops will give support to those wanting to implement components of STEAM into their youth development activities. Those who attend these workshops will learn about STEAM resources that are available through Extension and in the community. See first hand how to implement STEAM and be given time to collaborate with other STEAM professionals by practicing and creating lesson plans and activities.

Each workshop will offer ISBE Professional Development credit hours for teachers maintaining state licensure requirements. Customizable professional development opportunities are available.

For more information or to inquire about these workshops visit **go.illinois.edu/LMW** or call the McLean County Extension Office at (309) 663-8306.

# UNIT COLLABORATION

Collaboration is the key to success. We want you, as an educator, and our community's youth to succeed. If you have an idea but need resources to make it possible, or if you are stumped and need help coming up with a kit, lesson plan or extensive unit, reach out to us. Our team will develop a resource that supports your learning objectives. We, at the University of Illinois Extension are here to help.

For more information about collaborating or to begin working together call the McLean County Extension Office at (309) 663-8306.



# **STEAM IN THE CLASSROOM**

Additional learning experiences are available though the use of our exploratory resources as well as with our STEAM in the Classroom Program Coordinator.

- Be SAFE
- Butterfly Entomology Enrichment Program
- Chick it Out
- COLORS
- Financial Literacy in Ag Business
- In-class programming with our STEAM in the Classroom team
- Plant Enrichment Program
- Poverty Stimulation
- Walk in My Shoes
- Welcome to the Real World

For more information about any of these exploratory opportunities, please contact the McLean County Extension Office at (309) 663-8306 or maggielr@illinois.edu.



# **GRANT OPPORTUNITIES**

### George E. Holder Agriculture Awareness Grant

McLean County teachers can apply for a grant up to \$1,000 by implementing a gardening project that services either the community, school or students.

### John Maitland Agriculture Awareness Grant

McLean County teachers can apply for a grant up to \$1,000 by incorporating agriculture in the classroom.

Visit **go.illinois.edu/LMW\_STEAM** to find application dates and submission requirements. Be sure to check back for additional grant opportunities



COLLEGE OF AGRICULTURAL, CONSUMER & ENVIRONMENTAL SCIENCES









# OTHER EXTENSION RESOURCES

### **Family and Consumer Sciences**

Contact the office to learn more about the services and resources provided for content areas such as nutrion and wellness, financial literacy, budgeting, college scholarships, and more!

### Horticulture

Contact the office to learn more about the services and resources provided for content areas such as butterfly gardens, therapy gardens, horticulture, entomology, and more!

### **After-School STEAM Clubs**

An after-school 4-H STEAM SPIN Club is a group of students led by at least one screened volunteer. This SPecial INterest (SPIN) Club will meet a minimum of 6 times throughout the school year to discover, experience and explore topics within Science, Technology, Engineering, Agriculture, Art, or Math (STEAM).

By partnering with 4-H for this club, your school will have the organization and support of a positive youth development professional with experience in club facilitation both in and out of school for youth ages 5-18. All curriculum is research-based and used by the leader to teach content and practice the skills in order to meet the club objectives.

• **Club options:** Aerospace, Agriculture, Computer Science, Earth Science, Engineering, Kitchen Chemistry, Robotics, and more!

Contact the McLean County Extension Office at (309) 663-8306 to learn more about setting up an after-school club at your school.









# **4-H YOUTH PROGRAM INFORMATION FORM**

The below form is a sample of the 4-H Youth Information Form that will be given upon checkout. We ask for this form to be filled out for all youth being impacted by resources from our Extension office. Completion of this form is voluntary. If you are unable to fill this form out, our resources are still available for you to utilize.

Demographics are compiled to ensure we are reaching the largest audience possible. This allows us to maintain our federal funding in future programming.

**Illinois 4-H Youth Program Information Form** 

Program or Resource Name:				
Date:	End Date:	Number of Hours:	_	

Location Address:

As a federally funded institution, the University of Illinois Extension is required to keep records of race, ethnicity and gender for all program participants. By voluntarily providing this information, you will help us maintain funding to continue offering the quality programs you enjoy. Thank you for your understanding and cooperation.

Zip Code:

Is this your first time using a resource from University of Illinois Extension with this group of youth? \_

If you answered no, please indicate other Extension resources you've utilized in the past.

#### 4-H members

Female

Male

Thank You! Please return this to your county Extension Office when you return the resource.

#### The following information only needs to be included for youth who are NOT currently enrolled in 4-H.

#### Non 4-H members

Male	Female

Non 4-H Youth			
Hispanic Non-Hispanic			
White	White		
Black	Black		
American Native	American Native		
Asian	Asian		
Hawaiian/ Pac. Island	Hawaiian/ Pac. Island		
Other	Other		

	Non 4-1	H Youth		
Grade Level				
K	1	2	3	
4	5	6	7	
8	9	10	11	
			Special	
12	Post H.S.	None	Education	

# **CONTACT US**

### Livingston County

1412 S. Locust Street Pontiac, IL 61764 Phone: 815-842-1776 FAX: 815-842-6547 Hours: Monday-Friday 8 a.m. to 4:30 p.m. (Closed Noon-1 p.m.)

### McLean County

1615 Commerce Parkway Bloomington, IL 61704 Phone: 309-663-8306 FAX: 309-663-8270 Hours: Monday-Friday 8 a.m. to 4:30 p.m. (Closed 11:30 a.m. -12:30 p.m.)

### Woodford County

109 E. Eureka Avenue Eureka, IL 61530 Phone: 309-467-3789 FAX: 309-467-6034 Hours: Monday-Friday 8 a.m. to 4:30 p.m. (Closed Noon-1 p.m.)

## **UNITY Community Center**

632 Orlando Avenue Normal, IL 61761 Phone: 309-862-4041 Hours: Monday-Friday 11 a.m. to 7 p.m

# **I**ILLINOIS

Extension

COLLEGE OF AGRICULTURAL, CONSUMER & ENVIRONMENTAL SCIENCES



## go.illinois.edu/LMW\_STEAM



University of Illinois | U.S. Department of Agriculture | Local Extension Councils Cooperating University of Illinois Extension provides equal opportunities in programs and employment. If you need a reasonable accommodation to participate in this program, please contact us. Early requests are strongly encouraged to allow sufficient time for meeting your access needs. 9/2019