



4-H Club GO TO Resources



April 2017

Lesson Objectives:

Club members will:

- Explore the water cycle and the distribution of saltwater and freshwater .

Time: 20-30 minutes

Equipment &

Supplies:

- Appendix A: “Water and World” distribution cutouts
- Scissors
- Paper bag or other container to hold the cutouts
- Writing implements (e.g., markers)
- Calculator
- One piece of flip chart paper

Preparations:

- Review Lesson
- Divide the youth participants into small groups
- Copy the “water and World” sheets, then cut along the dotted lines, separating and folding each **one**
- Put the cutouts into a container

The Earth’s Water: Streams, Lakes, Oceans, & More!

Opening Questions/Prompts

- Ask participants to respond to each question/prompt below by sharing their ideas verbally or recording them on the flip chart paper provided.
- Describe some things you now about water
- Describe why you think water is important to humans. Explain why you think plants and animals need water.

Procedure (Experiencing)

1. Predict how much water is in glaciers, oceans, and fresh water sources such as streams and lakes.
2. Each group will take turns sending one person up at a time to remove a card for the paper bag. Groups should also take turns so every participant has the opportunity to remove a card. Depending on the amount of time, you have and the number or youth per group, you may wish to have participants select more than one card per turn.
3. Continue until all 100 cards have been selected from the bag.
4. Have the youth examine the cards in their small groups. Ask them to observe, compare, and discuss differences between the cards. They should categorize the cards based on the characteristics shown on the cards.
5. At this point, ask the youth to come together as a large group and report their findings. An overall tally should be made on a piece of flip chart paper that records how much total land, total freshwater, and total saltwater was pulled between all of the groups.
6. Based on what the youth observed during this activity and recorded as a large group, ask them to determine how much of Earth’s surface is covered in water versus how much is covered in land. Some youth may not know the concept of percentages. If this is the case, ask them to discuss amounts of land versus amounts of water in general terms. However, if they already understand the math, they should calculate the percentages of saltwater, freshwater, and land that cover the Earth’s surface.

Sharing, Processing, and Generalizing

Follow the lines of thinking developed by the youth as they share and compare their thoughts and observations; if necessary, use more targeted questions as prompts to get to particular points. These may include:

- Share your observations and thoughts about the distribution of water on the Earth. Explain different places we find water and what the different types of water might be.
- Share your thoughts on this new knowledge as it relates to what you know or wonder about where plants and animals might live and why they live there.
- Determine the different types of bodies of water are in your area. Are they freshwater or saltwater? Where is the nearest lake, river, or stream?

4-H'ers serve as True Leaders of Service during National 4-H Day of Service

We know that 4-H members do Community Service better than anyone. Now, there's a day set aside to celebrate that service as 4-H clubs across the nation come together for the first National 4-H Day of Service April 29. The goal of National 4-H Day of Service is to encourage 4-H members in every county to make a positive difference. National 4-H Day of Service is open to everyone in the community, 4-H members, families, volunteers and community partners. Service projects can be done by individuals or as an entire county 4-H program. No matter what the project, this will be a day to make a difference.

4-Hers can work on projects at any time during the month of April, however April 29 has been identified as the date to celebrate the culmination of service outreach. Register your project online @ <http://4-h.org/get-involved/true-leaders-in-service> .



4-H Citizen SCIENTIST

Become a 4-H Citizen Scientist

Putting Your Hands to Larger Service

"Hands to larger service," the third "H" of the 4-H pledge, is what awaits Illinois 4-H members interested in taking science to a new level in the 4-H Citizen Scientist program. Thanks to the generous support of Archer Daniels

Midland, this program will provide junior and senior high youth interested in environmental science opportunities to extend learning beyond current 4-H project work into the world of **hands-on research**. Members observe and record information on a given site, collect data from samples taken at their site and contribute their data to the growing field of scientific research related to water quality.

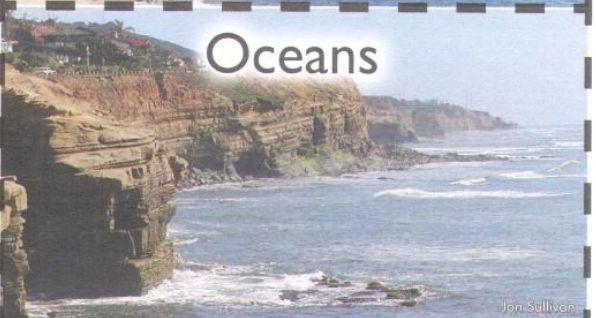
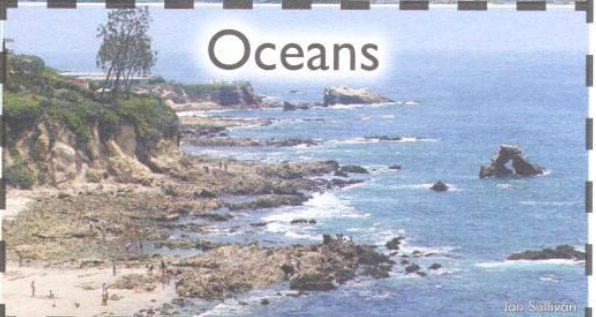
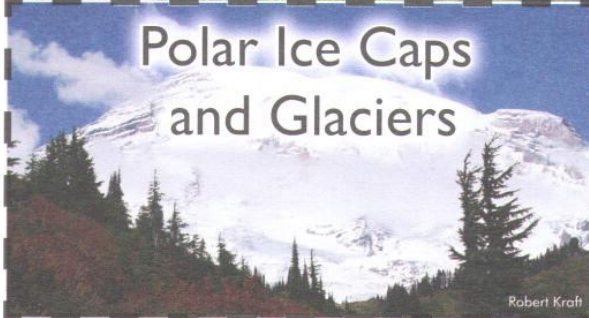
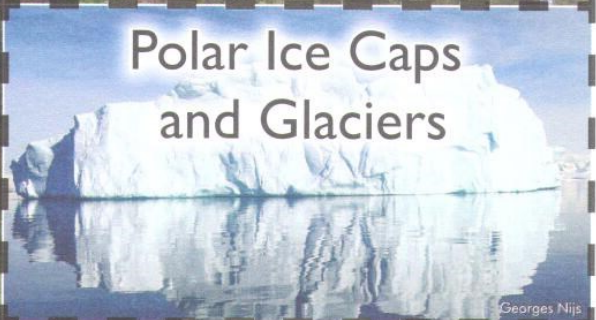
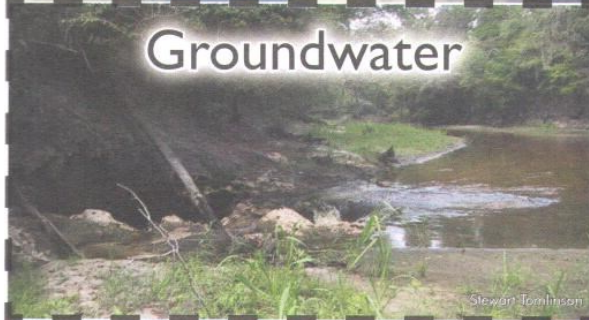
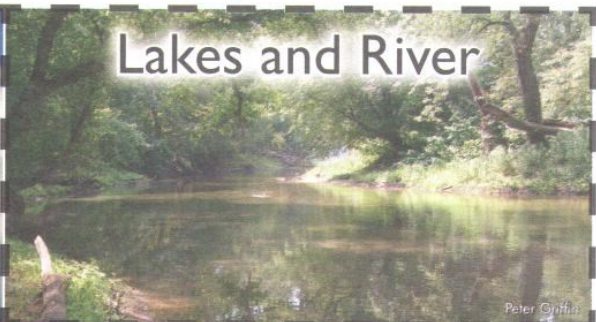
The program is open to current 4-H members and volunteers, as well as youth and adults who are not current members but wish to learn how to improve their local environment. Counties are encouraged to recruit teams of 1-2 adult volunteers and 3 – 5 teen youth interested in environmental education around water quality. **Participating teams will receive specialized training at no cost. Unit offices will receive a tool kit of equipment for use by 4-H citizen scientist teams in their data collections.**

Participants are required to attend a one-day session through the Illinois RiverWatch organization. The following training is in our area:

- April 22--Grayslake – registration due by April 12
- April 29--Joliet – registration due by April 19
- April 29--Peoria – registration due by April 19
- May 20--Rockford - registration due by May 10
- June 3--Apple River - registration due by May 24

Click on this link to register: at <http://events.constantcontact.com/register/event?llr=wx7o69dab&oeidk=a07ed17h880f8b38664>. **Special instructions for 4-H members and volunteers.** 4-H members must select "payment by check" and list their organization as their 4-H club & county so that the Illinois 4-H office can pay your registration fee. NOTE: there needs to be at least one adult 4-H volunteer who will be guiding the 4-H Citizen Scientist team attending the training with the team.

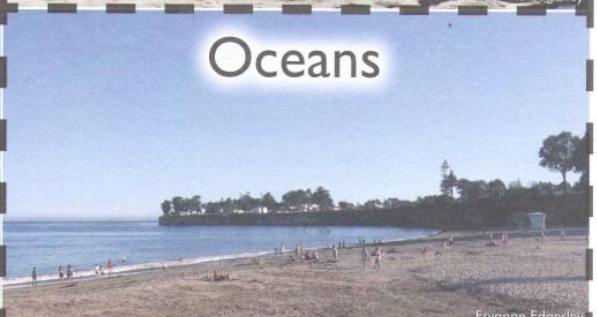
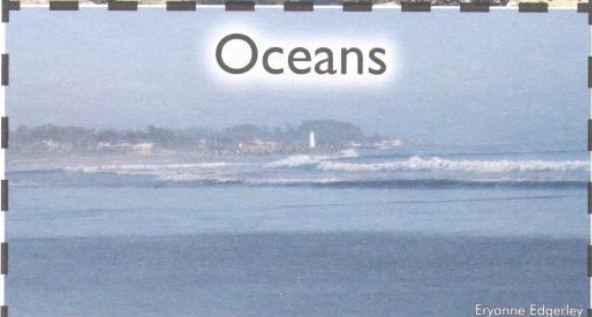
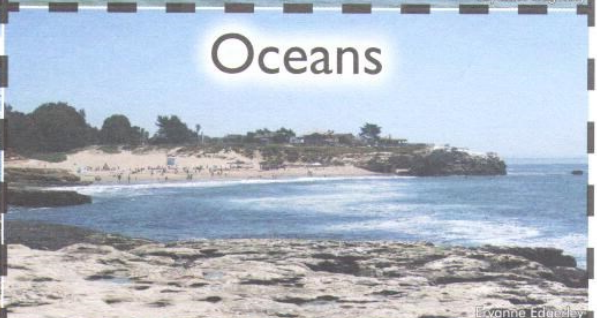
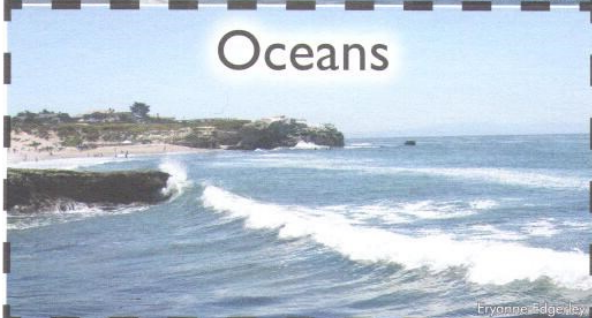
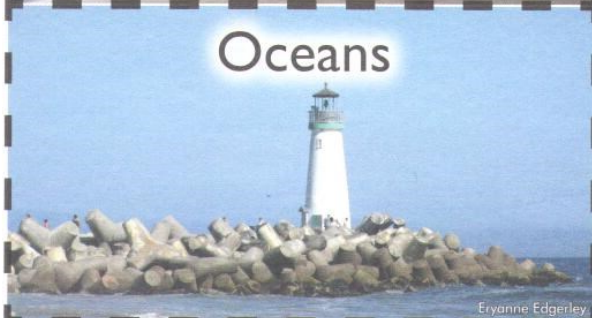
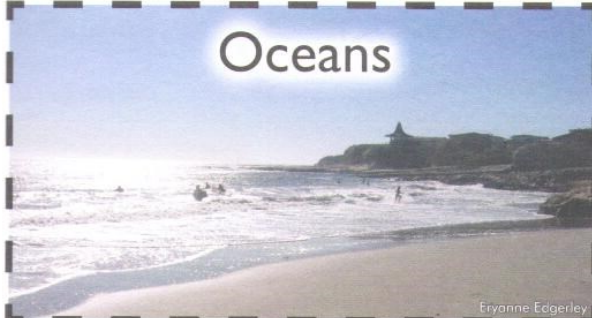
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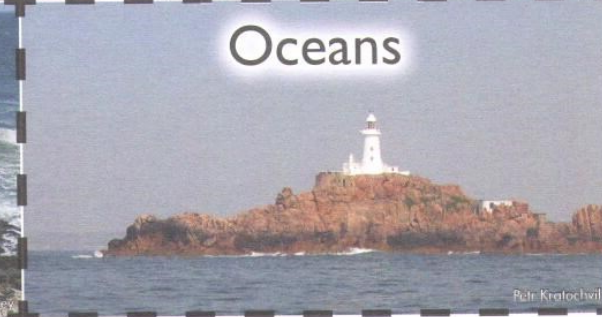
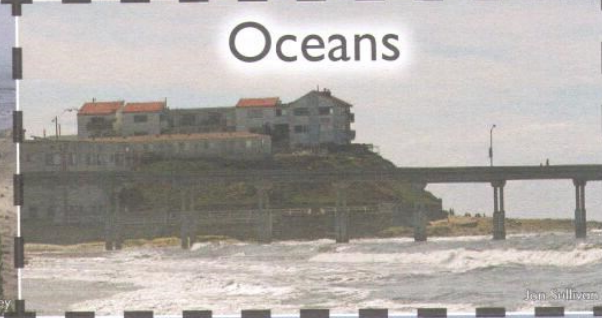
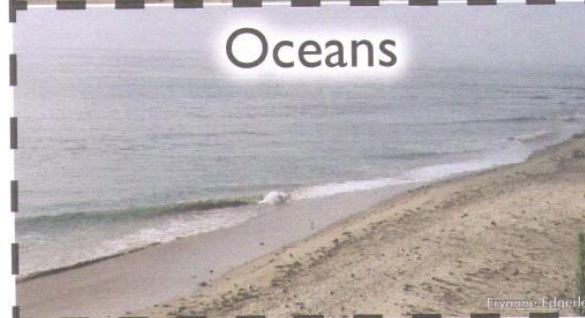
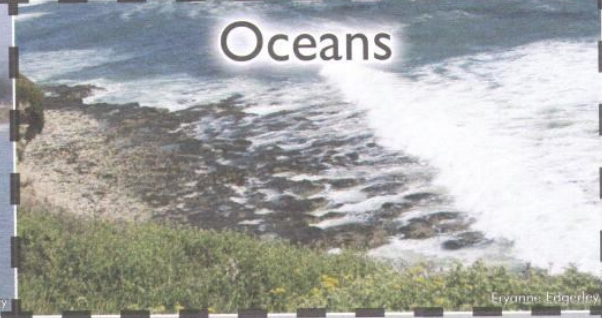
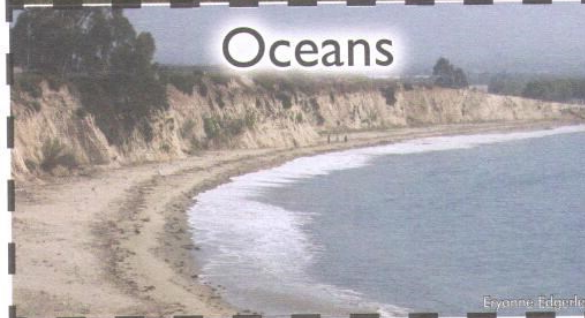
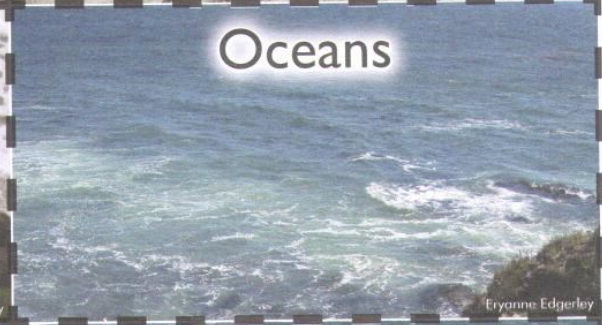
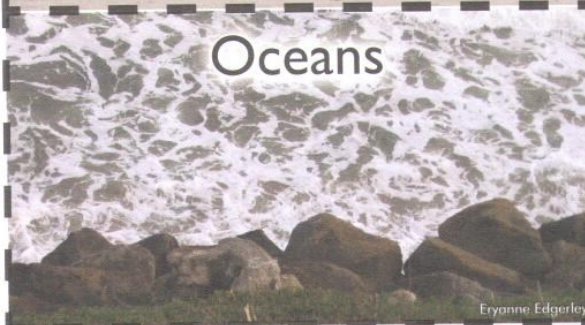
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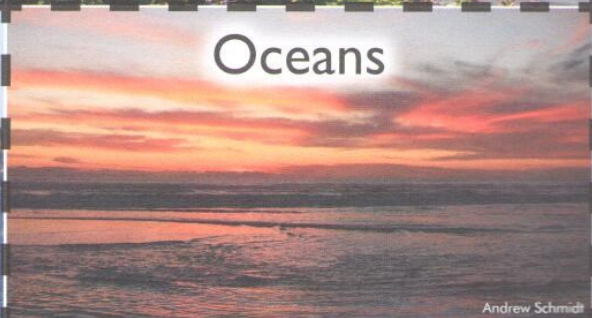
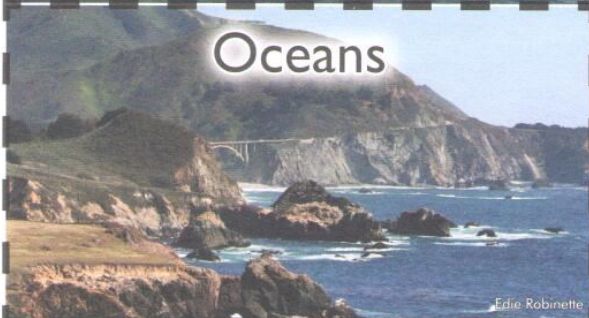
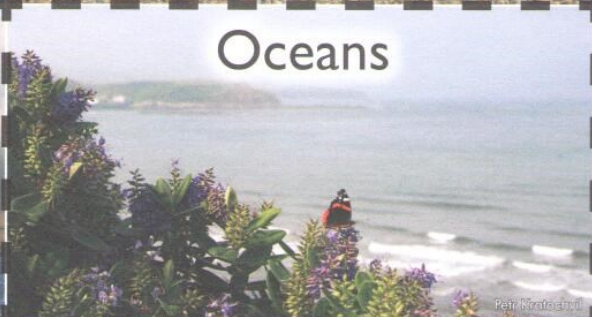
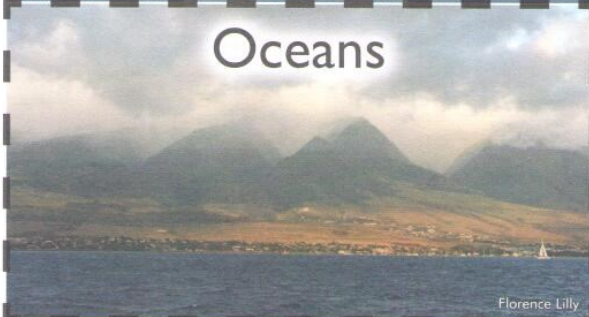
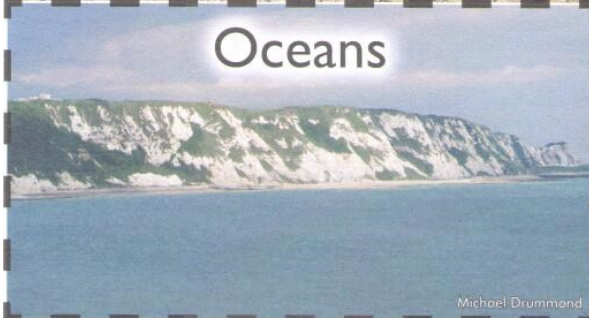
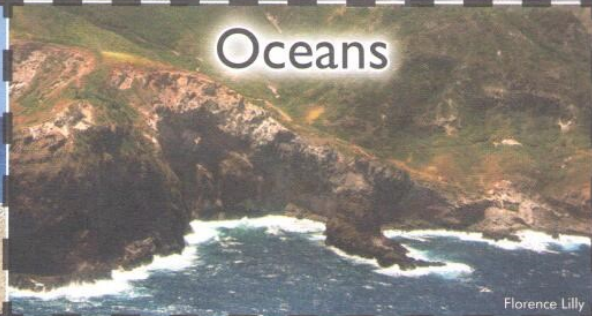
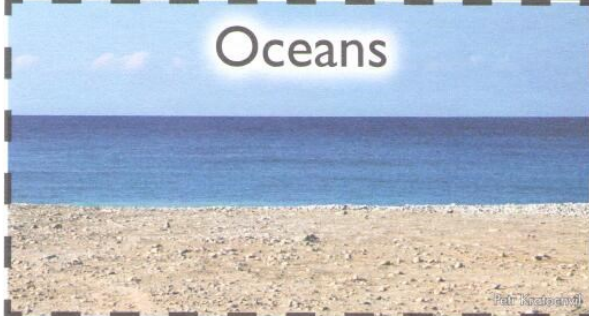
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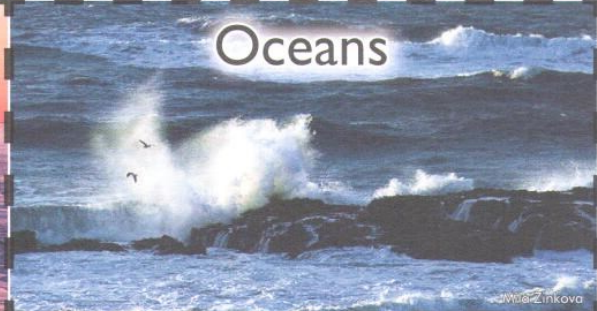
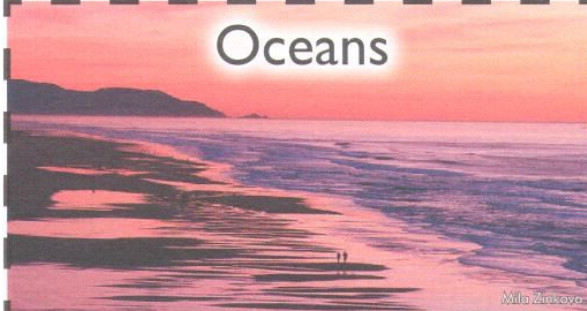
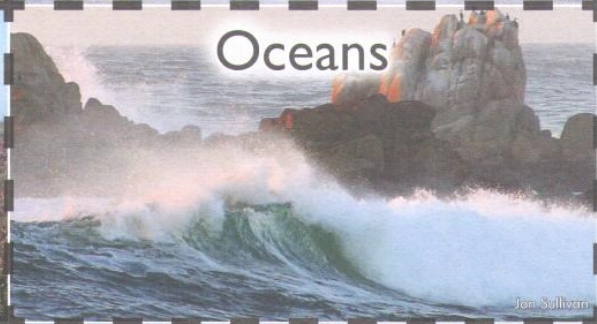
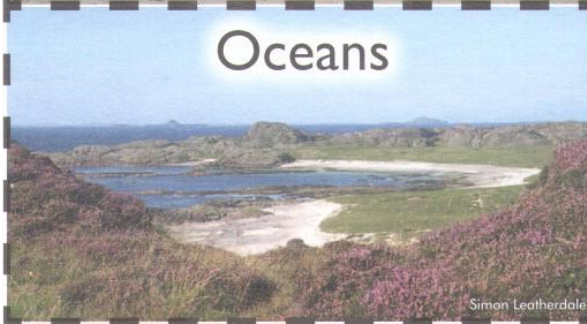
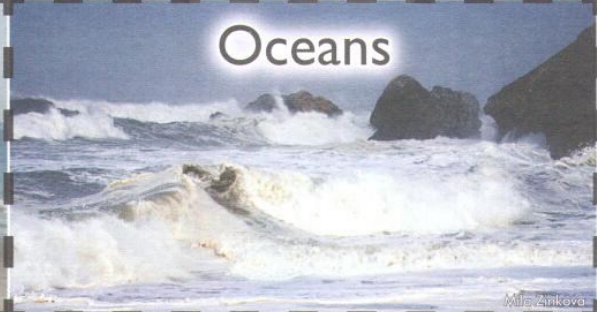
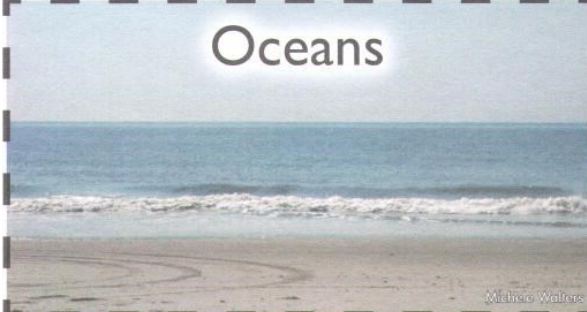
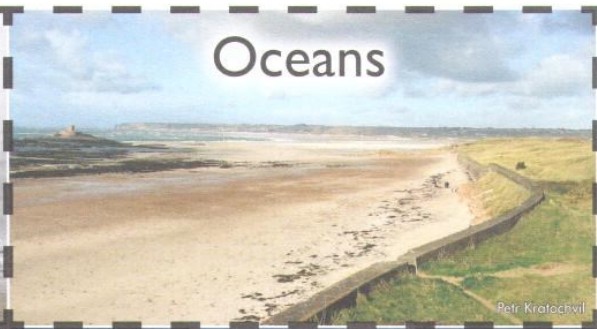
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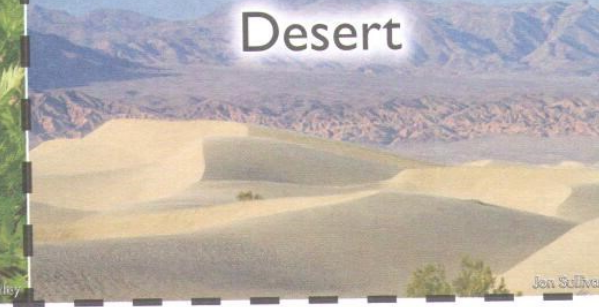
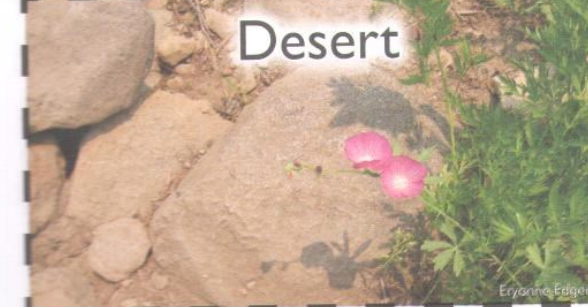
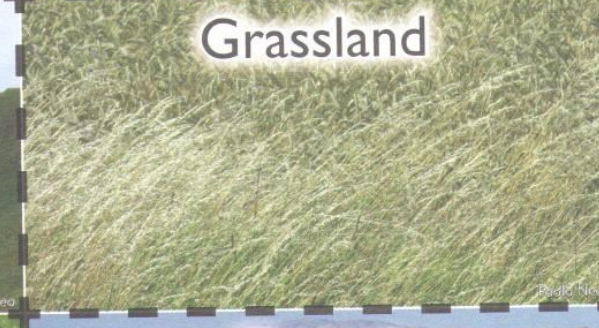
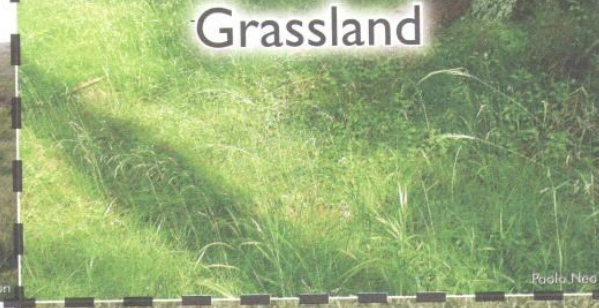
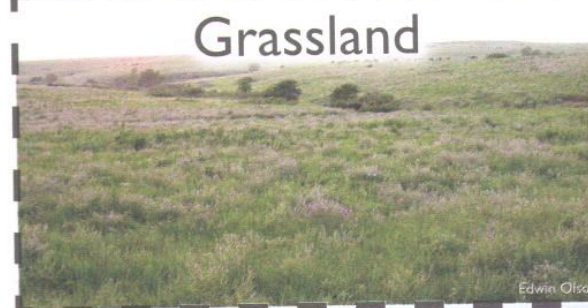
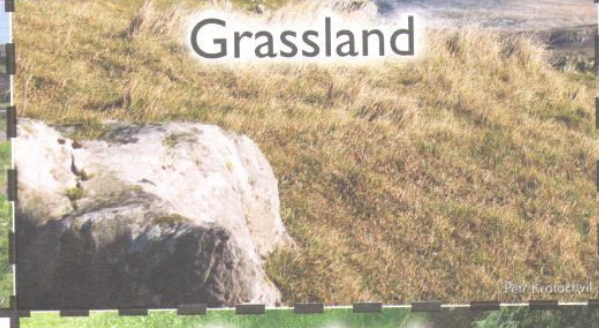
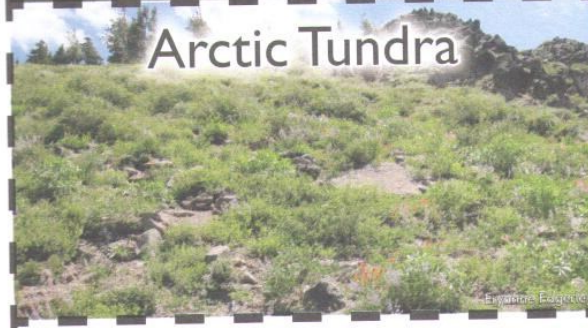
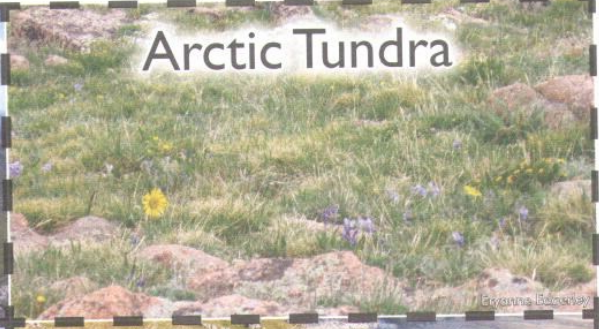
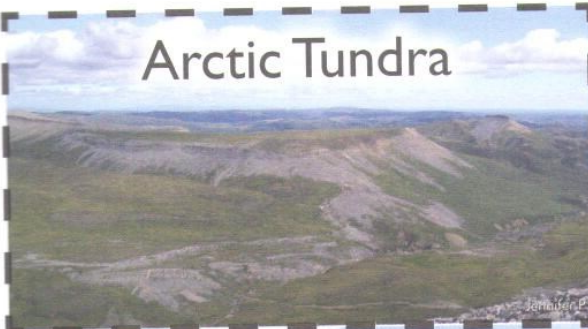
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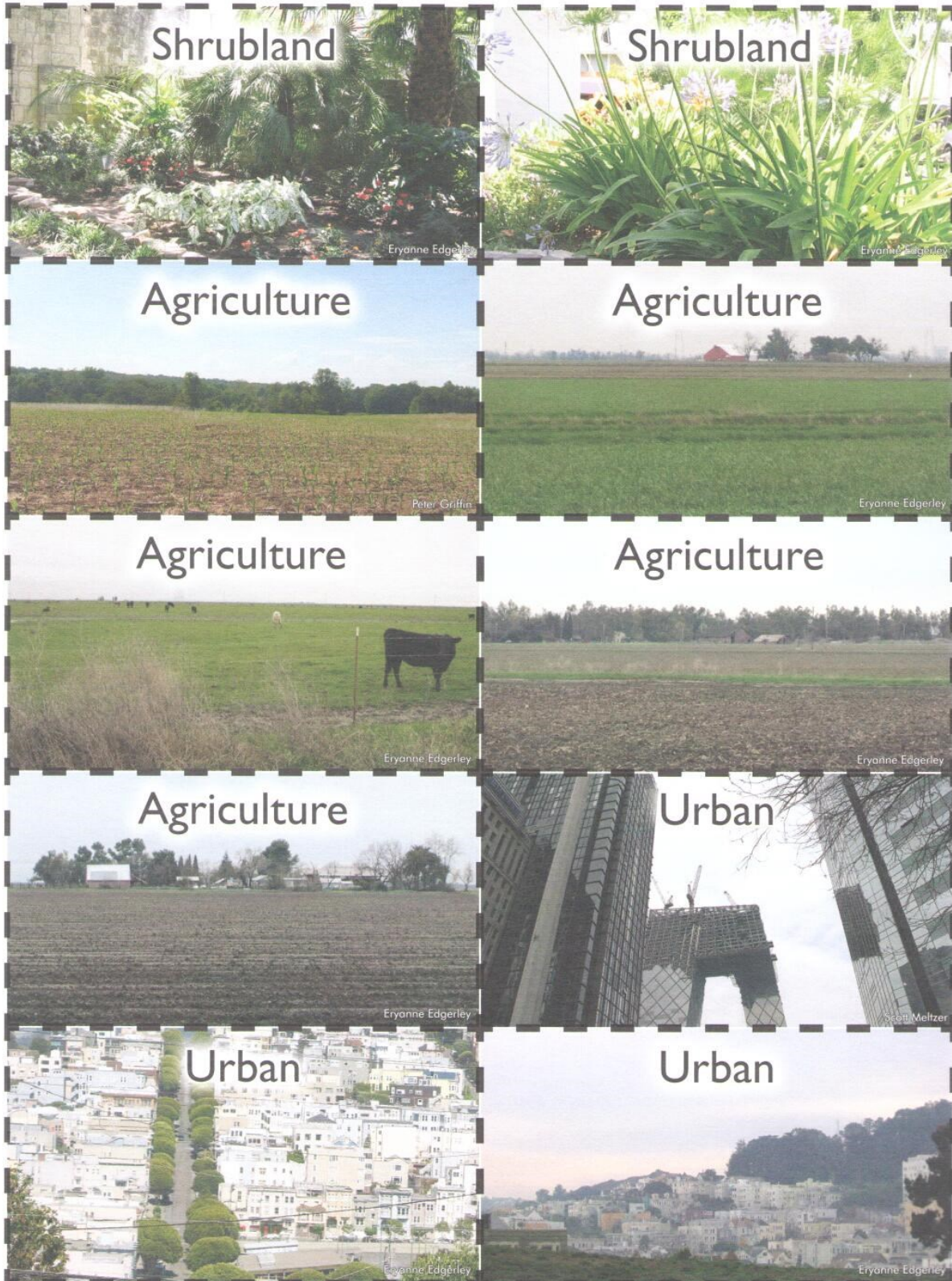
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University of Illinois Extension — Unit 2 — Boone, DeKalb, Ogle Counties

Boone County Extension Office

205 Cadillac Court, Unit 3

Belvidere, IL 61008-1733

Phone: 815-544-3710

Program Coordinator: Melissa Irwin

Email: mmirwin@illinois.edu

DeKalb County Extension Office

1350 West Prairie Drive

Sycamore, IL 60178-3166

Phone: 815-758-8194

Program Coordinator: Nicole Groezinger

Email: groezing@illinois.edu

Ogle County Extension Office

421 W Pines Rd, Ste 10

Oregon, IL 61061

Phone: 815-732-2191

FAX: 815-732-4007

Program Coordinator: Jodi Baumgartner

Email: jbmgrtnr@illinois.edu

Unit 2 Educator: Johnna Jennings

Email: bjennin@illinois.edu



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Sources & Additional Lesson info:

4-H Club GO TO Resources is being offered to 4-H clubs in Boone, DeKalb and Ogle Counties as a way to enrich and enhance 4-H experiences and programming at the club level. It is the goal of the Extension staff to assist 4-H leaders and officers in providing simple hands-on activities on a monthly basis that can broaden the 4-H club experience and as a result heighten positive youth development.

The Earth's Water: Streams, Lakes, Oceans, & More! is found in National 4-H Council's, There's No New Water! Activity I, pages 123-136. Developed by the University of California Agriculture and Natural Resources 4-H Youth Development Program..

For more information on Citizen Scientist Group Project contact your local Extension office.

Prepared by: Nicole Groezinger, 4-H Youth Development Program Coordinator

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