School Programs

LICA—Environmental Stewards teaches students about our Airshed & Watershed and those who live in it. We give students an inside look at how we utilize the environment along with ways we can prevent harm. Each program is specifically aligned with the Alberta curriculum and designed to provide hands-on learning while promoting environmental awareness.

These FREE programs are available year round!

To book your classroom presentation contact outreach@lica.ca or call (587) 201-4345.
To learn more about LICA's programs visit www.lica.ca.

GRADES

All **Vermicomposting** (1 hour)—Students learn about food waste and why it is important to compost. LICA will provide a starter vermicompost bin, including worms, for the classroom (while supplies last). Students will learn how to best care for their new class pets, and LICA will provide extra resources for the teacher.

k-1 **Wildlife Discovery** (1 hour)—Students are introduced to animals that live within our watershed and adaptations that help them survive. This program includes an interactive hands-on station activity with skulls and pelts.

2 **Creepy Crawlies** (1 hour)—Students will learn about different types of creepy crawlies, how their adaptations help them survive, and how they help people and the environment. Students will have the chance to interact with live red-wiggler worms. LICA can provide worms to build a vermicompost bin for the classroom upon request (while supplies last).

3 **Animal Survival** (1 hour)—Students will play an Animal Game to learn about how environmental conditions can threaten animal survival, and how habitat preservation can help animals survive. This activity is introduced indoors, then we move outdoors to a playground area to play the Animal Game.

4 **Waste Water** (1 hour)—Students learn about the Beaver River Watershed and how we deal with our waste water. Students learn what waste water is and where it ends up. They will engage in a group challenge to learn about water use and actions that can reduce water waste.

Plants in our Watershed (1 hour)—Students learn about the importance and many uses of native plants that are found within our watershed, and they are introduced to some ways that Indigenous People use these plants. Students work together to identify plants that are helpful and harmful to humans, followed by a game of jeopardy that reviews facts about plants in our watershed.

GRADES

5 **Air, Water, and Climate** (1 hour)—Students learn about how human actions can affect air, water, and the climate. They learn about sources and effects of greenhouse gases and the effects of vehicle idling on air quality. They play a Jeopardy game to review the benefits of stopping needless idling.

6 **Wetland Ecosystems** (1 hour)—Students learn about their role within in our ecosystem and how human actions can threaten, preserve, and enhance wetland ecosystems. Students engage in a hands-on activity, working together in teams to restore a simulated wetland.

Trees and Forests (1hour)—Students learn about how trees clean our air and water, and about impacts to forests. Students use tree cookies to identify trees parts that are involved in filtering water and air, and they investigate the amount of carbon dioxide absorbed by the trees on their school property.

7 **Ecosystems** (1 hour)—Students learn about interactions among plants, animals, fungi, bacteria, and other microorganisms within ecosystems by creating an interactive food web. They learn about how ecosystems can change due to human impacts and the special role that decomposers can play in mitigating these impacts.

8 **Water Quality** (1 hour)—Students learn about how human actions can affect water quality in positive and negative ways. Human impacts on air and water are explored and solutions for mitigating these impacts are presented. Students perform a hands-on water quality testing activity that asks them to predict and test the pH and dissolved oxygen levels of local water bodies.

9–12 **X-Stream Science** (2 hours)—X-Stream Science is a citizen-science based educational program that gives participants a hands-on learning experience with their local stream by conducting real-world water quality monitoring. Scientific protocols will be used to collect aquatic benthic macro-invertebrates (water bugs), conduct water quality tests, and collect site information for the analysis of their findings. LICA supplies all of the training, equipment, and handouts needed for the program. Offered in early fall & late spring.

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