

# School Programs

LICA—*Environmental Stewards* teaches students about our Airshed & Watershed and all about those who live in it. We give students an inside look on how we use the environment and how we can help protect it. Each module is designed to provide hands-on learning while promoting environmental awareness. Each program links specifically to the Alberta curriculum.

**These FREE programs are available year round!**

Contact [outreach@lica.ca](mailto:outreach@lica.ca) or call (587) 201-4345 to book your classroom presentation. To learn more about LICA's programs visit [www.lica.ca](http://www.lica.ca)

**Kindergarten-Grade 1:** Wildlife Discovery—Students are introduced to animals who live within our watershed and what they need to live in the wild. This program includes an interactive hands-on activity with skulls and pelts.

**Grade 2-3:** Creepy Crawlies—Students will learn about different types of creepy crawlies and how their adaptations help them survive in the wilderness, learning about the different types of life cycles in the insect world. Students will have the chance to interact with live red-wiggler worms and learn why they are important to our environment. LICA can provide worms to build a vermicompost for the classroom upon request (*while supplies last*).

**Grade 4:** Waste Water—Students learn about the Beaver River Watershed and how we deal with our waste water. Students learn what waste water is, where it ends up and how we create waste water through an interactive watershed in a bowl activity.

**Grade 4:** Boreal Forest—Students are introduced to animals within the boreal forest. They are given a presentation on the importance of the boreal forest for wildlife and water quality, teaching students about cool adaptations of species in the boreal forest. It also includes an interactive hands-on portion involving skulls and pelts.

**Grade 4-5:** Airshed— Students will learn all about air. What makes up air and what affects air. Learning about sources and effects of greenhouse gases. Student will get to collect real time air quality data with our Airbeam.

**Grade 5:** Wetland Ecosystems—Students are given a presentation on wetland ecosystems and their role and importance in our ecosystem. Students watch a wetland in a box demonstration and make a food web with an emphasis on how wetlands function.

**Grade 6:** Trees and Forests—Students learn about the importance of trees and forests in relation to our watershed and to local animal species with a hands-on activity with pelts and skulls. Students also have a chance to investigate and learn about tree cookies.

**Grade 7-8:** Ecosystems— Students learn about the boreal forest, local freshwater ecosystems, and human impacts affecting them. They learn about the importance of riparian areas and how ecosystems can change due to humans. The students will spend time testing the water quality of several different samples of water from local water bodies.

**Grade 9:** Biodiversity— Students learn about the different levels of biodiversity and the important role it plays using real world examples. Students will match up local animals to their pelts, skulls, tracks & scat by identifying adaptational features. Students will get to review what they learnt with a biodiversity game.

**Grade 9-12:** X-Stream Science—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.