

WETLAND FIELD STUDY



PEAKS
CAMPUS



Livingstone
Range
SCHOOL DIVISION



Wetland Field Study

Wherever we go in the boundaries of Southern Alberta's Treaty 7 Territory, we will most often find visibly beautiful rivers, creeks, and marshes that enrich our ecosystems and are the necessities to living creatures and animals that inhabit them. Water is a necessity of life. However, we don't often think about the ecosystems and organisms that take homage in these mysterious wetlands.

- **Grades:** K-12
- **Duration:** 1-2 hrs
- **Dates:** Available during the Fall and Spring seasons.
- **Where:** PEAKS Campus, your local watershed or your local river, creek, lake.
- Materials will be provided.

***If you are interested or have any questions about this program, please contact [PEAKS Campus](#)**

***[Post Experience Survey:](#)**

Must be completed by all teachers, supervisors and students.



Learning Objectives

With PEAKS facilitators, you and your class will explore the biodiversity in our local waters and the impacts they have on its surroundings. Students will have the opportunity to explore and investigate the following:

- Indicator species
- Invertebrates vs Vertebrates
 - The differences between them and their importance
 - Identifying various organisms within your local waters
- Building an understanding of all life in the ecosystem
 - Biotic vs abiotic organisms
 - Biodiversity
 - How living things grow and need food
 - Life cycles
 - Food Chain
 - How various organisms move in and with water
 - Explore the different sizes and shapes of invertebrates, animals and plants using magnifying glasses and microscopes
 - Habitat health
 - Ecosystem sustainability
 - How humans affect our local ecosystems, plants and animals
- Develop awareness of “Leave No Trace” concepts and our responsibilities in protecting our wildlands
- Water testing - pH balance
- Preservation and conservation of our ecosystems
- Investigative research inquiry
- Cell structure and function
- Data collection
- Field science experience



PEAKS Campus utilizes the following Alberta Education competencies as guiding principles to student education:

CRITICAL THINKING

COMMUNICATION

PROBLEM SOLVING

COLLABORATION

MANAGING INFORMATION

CULTURAL AND GLOBAL CITIZENSHIP

CREATIVITY AND INNOVATION

PERSONAL GROWTH AND WELL-BEING

Click [Curricular Links](#) for more information.

What to Expect

Equipment provided by PEAKS Campus includes:

- A state of the art Mobile Field Study Lab which will be transported to your required location. It contains dissecting and compound microscopes, microscope supplies (slides, solution bottles, petri dishes, etc) , 2 TV's, sample collection supplies.
- Invertebrate identification guide, magnifying glasses/cups, nets, and containers.

Additional programming:

- Make this a 1-2 day experience where we can team up with local Old Man Watershed staff that will run a free inquiry-based field study (X-Stream Science) where students can test water samples for purification, pH, oxygen content and more.
- Check out our [Trees and Forests Program](#) to broaden students' investigation skills and perspectives of forest ecosystems and their interactions.