

Data Collection in Sustainable Ecosystems

Grade Ten Education Program

The Basics

Our education programs take between 1 and 3 hours, including a lunch break in the classroom or our picnic park. Programs can be shortened in length to accommodate groups, without a change in cost.

The cost for this program is \$2.00 per person. This includes teachers, chaperones, and students.

We recommend a chaperone to student ratio of 1:5.

Our site is wheelchair accessible.

What to Expect:

During an Education Program at Shubenacadie Provincial Wildlife Park, you will be greeted by the Nature Interpreter facilitating the program. The program begins with an introduction activity exploring what kinds of data collection biologists use in the field, particularly what data we collect about our animals each and every day.

Students go into our wetland ecosystem to gather data by doing quadrant surveys of three different ecosystems. They may also collect invertebrates using dip nets to further explore the biodiversity of the wetlands noting the different trophic levels each specimen belongs to. Attention is paid to any pertinent abiotic factors.

Students participate in a guided tour of the animals where they compare which ecosystem each animal lives in as well as where they live geographically. Patterns and trends will be highlighted.

After the park tour, students will have the chance to share their experiences while having their lunch in the classroom, or you may choose to have lunch in our picnic area.



Outcomes Addressed in 'Data Collection in Sustainable Ecosystems'

Gr. Ten- Science

- Distinguish between biotic and abiotic factors, determining the impact on consumers at all trophic levels due to bioaccumulation, variability, and diversity (318-2, 318-5)
- Predict and analyze the impact of external factors on the sustainability of an ecosystem, using a variety of formats (212-4, 212-3, 331-6)
- Describe how classification involved in the biodiversity of an ecosystem is responsible for its sustainability (214-1, 318-6)
- Describe how different geographical locations can sustain similar ecosystems (331-7, 318-3)

Gr. Ten- Math

- 10.F3 Construct various displays of data
- 10.A2 Analyze graphs or charts of given situations to identify specific information
- 10.F9 Demonstrate an intuitive understanding of correlation
- 10.C10 Describe real-world relationships depicted by graphs, tables of values, and written description.
- 10. F2 Demonstrate an understanding of concerns and issues that pertain to the collection of data

To book an Education Program, please complete the reservation form on our website. For more information email LegacyCentre@novascotia.ca.