

Grade 4 Teachers

Core Curriculum Based Programs – ALL YEAR Highlands O.E.C.

An Experiential Learning Centre on over 100 Acres of Niagara Escarpment,
a UNESCO World Biosphere Reserve!

Let us help meet your core curriculum needs!

At **Highlands Outdoor Education Centre** your class will have a fun-filled time while you complete specific expectations of the Ontario Grade 4 Curriculum. We offer a great selection of dynamic programs!

Why not make the most out of your trip and combine two half-day programs to create a full day of hands-on experiential learning! During the winter, make one of the two programs Cross-country skiing or snowshoeing.

Bag lunches are always welcome.
Cold and hot drinks are available for purchase.

All programs and activities at **Highlands Outdoor Education Centre** have been cross-referenced to the Ontario Curriculum for your convenience and cover a wide range of both specific and general expectations from strands. All programs incorporate Language requirements through writing, reading, oral and visual communication components that are inherent in all of our on site activities. All programs are dynamic and adaptable to the group.

Program Curriculum Cross Reference GRADE 4	Science and Technology	Social Studies	The Arts	Health and Physical Education
Legend <ul style="list-style-type: none"> • Program meets one or more specific expectations ○ Program meets 4 or more specific expectations □ Program meets 8 or more specific expectations 				
Programs				
Rocks and Minerals	□			•
Walker Quarry Bus Tour (Rocks and Minerals)	•			
Habitats and Communities – Farm and Pond	□			•
Survival on the Niagara Escarpment (Habitats and Communities)	□			•
Wayfaring (Map Work)		•		○
Pulleys and Gears	□			
Cross-country skiing or snowshoeing				•

Skilled Interpretative Staff – Bilingual (French) instructor available on request
Learning Centre – Lunch Room and Washrooms
Facility is Wheel Chair accessible – ATV carrier on site

PROGRAMS: **Full Day:** Spring/Fall: \$13.50 each **Half Day:** Spring/Fall: \$10.00 each
 Winter: \$18.00 each (includes ski/snowshoe rentals)
 (2 Programs –4 Hrs. Instruction) (1 Program – 2 Hrs. Instruction)

Teachers and Volunteers – FREE!



Advance Booking is Required!

Highlands Nordic Inc. - located 11km south of Collingwood
 1182 Conc 10 South, Clearview Township
 Box 110, Duntroon, ON, L0M 1H0

Phone or Fax: (705) 444-5017 or 1-800-263-5017

Email: hoec@highlandsnordic.ca

Web: www.highlandsnordic.ca

Highlands Outdoor Education Centre – PROGRAM OUTLINE Gr. 4 2016/2017

Note: Proper footwear, rubber boots (for Habitats or if raining), closed toed shoes for fall/spring, winter boots for snow season, is essential for students, teachers and parent volunteers to maximize the learning potential and related enjoyment of this program.

PARENT VOLUNTEERS ARE REQUIRED FOR ALL PROGRAMS. Ratio 1 to 5 for the indoor programs.

1. Rocks and Minerals - indoor – ALL YEAR

Students will: investigate, test, and compare the physical properties of rocks and minerals, investigate how rocks and minerals are used and disposed of in everyday life, and describe how igneous, sedimentary and metamorphic rocks are formed.

2. Bus Tour to Walker Aggregates Quarry – indoor/outdoor – Fall and Spring

This is a half day program which complements the Rocks and Minerals program. Students will experience a working quarry while on a bus tour to nearby Walker Aggregates Quarry (3 minutes away). The tour will end back at Highlands O.E.C. with hands-on samples of quarry product and equipment. **Your school bus transportation is required to stay at Highlands in order to transport your class to and around the quarry.** The tour guide will board the bus at the Quarry.

3. Habitats and Communities – outdoor –Fall/Spring

Through a series of hands-on demonstrations and activities, students will analyse the effects of human activities on habitats and communities. To investigate the structural adaptations that allows plants and animals to survive in specific habitats, and to develop an understanding of a community as a group of interacting species sharing a common habitat, students will visit a mini-farm, collect creatures from the forest floor and from our beaver pond. Observations will be recorded on a supplied worksheet.

4. Survival on the Niagara Escarpment (Habitats and Communities) – outdoor – ALL YEAR

Students will play a role in a food chain as a carnivore, omnivore or herbivore, as it may occur on the Niagara Escarpment. Our version of the survival game shows the interdependence of all organisms within a local forest community. It examines food chains, food webs, and shows the concept of energy flow within an ecosystem. Students will experience both the struggle all organisms on the escarpment must go through, and the impact humans can have on wildlife populations, food chains, and ecosystems.

5. Wayfaring (Map Work) – outdoor – ALL YEAR

Students will participate in a map reading program building on skills learned as they venture through three progressively challenging levels of maps. Students will only advance after successful completion of each stage.

6. Pulleys and Gears – indoor – ALL YEAR

To develop an understanding of the basic principles and functions of pulley and gear systems, students will, through a series of interactive activity stations, experiment with pulleys and gears of different sizes and combinations, and construct a wishing well.

General Information

- All Programs must be reserved in advance and are designed as half-day sessions for a minimum of 15 students per program.
- Two half-day programs make an exciting full-day program.
- For December – March, combine one, half-day program, with half-day cross-country skiing or snowshoeing
– See **Welcome to Winter Programs Flyer**
- Programs run rain or shine (unless extreme weather conditions are forecasted).
- Supervisors are expected to remain with their group throughout the visit (program/lunch) and are responsible for discipline