




Charitable Research Reserve

# Elementary Modules



Grade	Module Title	Dropoff/Pickup Location	Description	Fee	Booking Information
K-2	<b>Animals in Motion</b>	Lamb's Inn	Students will explore the life cycles of butterflies, dragonflies, frogs, and birds. Pond dipping, catching butterflies, and bird-watching through binoculars will be explored hands-on.	\$9.00 per student	Module available in early Fall and Spring, dependent on seasonal weather.
3	<b>Dirt on Plants</b>	ECO Centre	An interactive soil expo to investigate soil composition, development, conservation, and importance to plant growth. Students will hike through different ecosystems to observe native and invasive plant species while exploring how sand, silt, clay, and organic matter combine to form soil.	\$9.00 per student	Module available in early Fall and Spring, dependent on seasonal weather and plant growth.

4	<p><b>Ducks Unlimited Project Webfoot: Wetlands Exploration</b></p> 	ECO Centre	<p>Ducks Unlimited Canada (DUC) has protected wetlands and waterfowl for nearly 75 years. Through their sponsor's generosity, a free trip to <b>rare's</b> wetlands along with in-class resources are available.</p>	<p><b>FREE</b> of student costs, with a \$75 bus subsidy available upon submission of a request to DUC.</p>	<p>Module available in Spring. Booking for this Module is completed through <b>rare</b>, please inquire regarding availability of funding.</p>
4	<b>Cliffhangers</b>	ECO Centre	<p>Students are exposed to many of our ecosystems: rivers, streams, swamps, cliffs, grasslands, and mature forests. Interactions between organisms are identified and the impact of the physical environment on species is explored.</p>	\$9.00 per student	<p>Module available from September to mid-November and mid-March to June.</p>
5	<b>Energy Cycles and Conservation</b>	Southside Lot	<p>Students will hike to Springbank Community Gardens to explore organic agriculture and sustainability. Students will witness the flow of energy through natural systems and the impacts of humans through different methods of agriculture.</p>	\$9.00 per student	<p>Springbank Garden tours vary depending on seasonal weather.</p>
5-8	<b>North House: Exploring a Model of Green Living</b>	Southside Lot	<p>Students will explore North House, a new and innovative solar-powered green living model home that produces more energy than it consumes. Students will witness various technologies that make sustainable living both attractive and rewarding. Using infrared thermometers, students will measure North House's ability to regulate temperature using solar energy.</p>	\$9.00 per student	<p>Module available from November to June.</p>

5-8	<b>Birding with Citizen Science!</b>	ECO Centre	Students will have the opportunity to mirror bird monitoring methods by citizen scientists across <i>rare's</i> property using proper procedure and equipment.	\$9.00 per student	Module offered September to November and April to June.
6	<b>Biodiversity: Old Growth Forests</b>	South Gate	Hike in old growth and mature forests, through disturbed and undisturbed local habitats. Students will examine forest composition, fauna, and the physical environment to investigate forest restoration, regeneration, and human impacts on our natural spaces.	\$9.00 per student	Module available year-round.
6	<b>Biodiversity: Meadow to Forest</b>	ECO Centre	Students will hike through savannah and thicket, floodplain, and mature forests of varying species composition along the Grand River amongst outcrops of limestone cliffs. Students will examine forest composition, fauna, and the physical environment to investigate forest restoration, regeneration, and disturbance on our natural spaces.	\$9.00 per student	Module available from September to mid-November and mid-March to June.
7	<b>Interactions in the Environment: Indian Woods</b>	South Gate	Trek through old growth and managed forests and meadows. Students will explore how plants change the physical environment through the process of succession. Students will identify local flora and fauna and discuss ecosystem interactions.	\$9.00 per student	Module available year-round.

7	<b>Interactions in the Environment: Cliffs and Alvars</b>	ECO Centre	Trek through varying ecosystems: rivers, streams, swamp, cliffs, grasslands, and mature forest. Observe the osprey tower, identify local flora and fauna and discuss ecosystem interactions.	\$9.00 per student	Module available from September to mid-November and mid-March to June.
8	<b>Water, Water, Everywhere</b>	ECO Centre	Students will visit the Grand River and cold water creeks to explore themes in water quality and conservation. Classes have the option of collecting water samples and conduct water quality tests identifying impacts of humans and the biotic and physical environment.	\$9.00 per student	Module available from September to mid-November and mid-March to June.
K-8	<b>Snowshoe Exploration: Migration, Hibernation, and Dormancy</b>	ECO Centre	Students will visit forest and meadow habitats to investigate animal migration, animal hibernation, signs of winter animal activity, and plant dormancy. Students will observe animal habitats, hunt for tracks, and learn which animals have snowshoes of their own!	\$9.00 per student	Module available from December to April, dependent on seasonal weather. In the case of minimal snow accumulation, a hike without snowshoes is possible.
K-8	<b>Snowshoe Exploration: Winter World</b>	ECO Centre	Snowshoe or hike through forest and meadow habitats to investigate the physical environment in winter. Students measure air and snow temperatures, look at snow crystals, and investigate how the landscape and plants affect the distribution of snow.	\$9.00 per student	Module available from December to April, dependent on seasonal weather. In the case of minimal snow accumulation, a hike without snowshoes is possible.

## Elementary Modules at *rare*

Home to over 24 habitat types, *rare* is an ideal location for curriculum based outdoor activity. Module design is such that students will visit different habitat areas of *rare* as they return each year. Experiencing *rare* in such a way will provide students with the opportunities to develop the knowledge, skills, values, and motivation necessary to become responsible environmental citizens. The “bigger picture” will be a key underlying theme to *rare*'s programming. Students will understand that the actions of today will greatly affect the outcomes of tomorrow.

An integral part of our educational modules is the “*Chain of Learning*” structure, giving students a link to innovative discoveries at every stage of learning. Current research at *rare* provides the content for the “*Chain of Learning*” model. Researchers develop restoration and bio-inventory projects, passing their knowledge to university and high school students who then undertake hands-on projects to pass their new knowledge on to elementary students. At *rare*, all students play an active role in advancing environmental research and education.

Our school modules are designed and facilitated by our education department, which includes certified teachers with experience developing and delivering environmental education programming.



## Booking Information

- Modules will be offered from September 12, 2016 to June 30, 2017
- All modules are offered as half day (2.0-2.5 hours in length) with flexible start times
- Limited number of spaces available, please book well ahead of time
- For groups of less than 15, there is a minimum fee of \$135.00
- Modules are weather permitting; trips may be cancelled with impending inclement weather
- \*\*Full day modules are available upon request

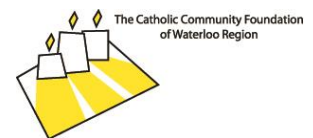
The modules are not limited to the outlines listed above; modules can be tailored for specific course requirements and student needs. We also offer exciting opportunities for school environmental clubs.

**Explore, Learn, Be Curious, Be Inspired, Be Active!**



**For more information, please contact:**

**Emily Leslie**  
**Gill Ratcliffe Educator**  
[education@raresites.org](mailto:education@raresites.org)  
p. 519-650-9336 x112  
f. 519-650-5923



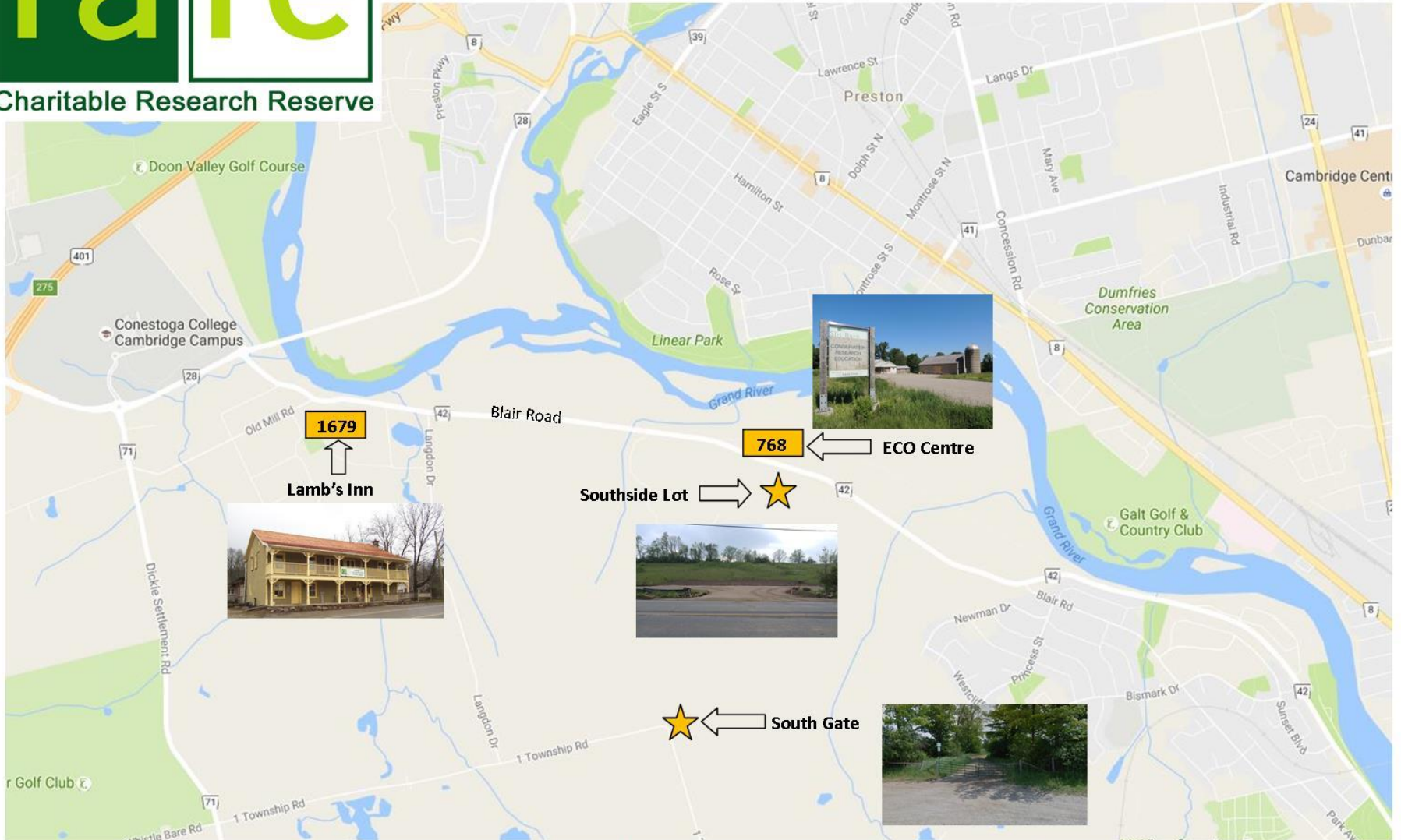
***rare* Charitable Research Reserve**  
1679 Blair Rd.  
Cambridge, ON  
N3H 4R8

For more information, visit us at  
[www.raresites.org](http://www.raresites.org)



Charitable Research Reserve

# rare Charitable Research Reserve Module Locations



Lamb's Inn: 1679 Blair Rd.

ECO Centre: 768 Blair Rd.

South Gate: L-Bend on 1 Township Rd. (Whistle Bare Rd.)

Southside Lot: Across Blair Rd. from ECO Centre