

# DISCOVERING WATERSHEDS

*A free interactive program delivered to your classroom*

GEORGIAN BAY  
**FOREVER**



Sponsored by Georgian Bay Forever, the Nottawasaga Valley Conservation Authority offers this free program to local schools, so that students can learn about watersheds and how to prevent pollution from entering the environment.

Through scientific activities and discussion, and use of the Envirosapes (interactive 3D models of watersheds), students are provided with a hands-on experience, and a demonstration of how water and pollution travel through communities, impacting the environment and water quality.

## Curriculum Connections – Activities by Grade

### Grade 1 Science—Needs and Characteristics of Living Things

B1.1 Describe changes or problems that could result from the loss of living and non-living things that are part of everyday life, while taking different perspectives into consideration.

### Grade 2 - Relating Science and Technology to Our Changing World

B1.2 Assess impacts of various human activities on animals and the places where they live, and describe practices that can minimize negative impacts.

### Grade 3 - Growth and Changes in Plants

B1.2 Assess ways in which human activities have an impact on plants and plant habitats, and identify personal actions that one could take to minimize harmful effects and enhance positive ones.

### Grade 3 - Earth and Space Systems: Soils in the Environment

B1.2 Assess the impact of human activity on soils, and describe ways in which humans can improve the quality of soils and/or lessen or prevent harmful effects on soils.

### Grade 4 - Life Systems- Habitats and Communities

B1. Relate science and technology to our changing world – assess impacts of human activities on habitats and communities, and analyze actions for minimizing negative impacts and enhancing positive ones.

### Grade 4 - Exploring and Understanding Concepts Habitats and Communities

B.2 Describe a community as a group of interacting species which share a common habitat, and identify factors that affect the ability of a community of plants and animals to survive in a local habitat.

### Grade 5 - Relating Science and Technology to Our Changing World- Human Health and Body Systems

B1.1 Assess effects of a variety of social and environmental factors on human health, and describe ways in which individuals can reduce the harmful effects of these factors and take advantage of those that are beneficial.

**REFER TO THE NEXT PAGE FOR  
OUR RESERVATION PROCEDURE**

# Microplastics Investigation Workshop

*A free program delivered in your schoolyard and nearby community*



Plastic is everywhere – it's convenient and affordable, but at the current rate of production and disposal, it's also unsustainable, as most plastic ends up in landfills and water where it harms the ecosystem and eventually turns into microplastic. Plastic never truly disappears, instead it breaks down into smaller pieces, but never fully decomposes. Not only does this impact ecosystems, but it also affects human health.

Sponsored by Georgian Bay Forever, the Nottawasaga Valley Conservation Authority is offering a free program to schools for students to learn about the impact of microplastics. This opportunity to explore solutions and innovative ideas through collaboration with their peers will provide students with the tools to tackle real-world problems. Activities can include walking from their school towards the closest river or stream to learn how water flows in a watershed, and using hands-on scientific techniques and equipment to gather samples, record data, and investigate their findings in the schoolyard.

## Curriculum Connections – Activities by Grade

### All grades:

A1.1 Use scientific research processes and associated skills to conduct investigations.

### Grade 6 Science - Biodiversity:

B2.5 Describe interrelationships within species and explain how these interrelationships sustain biodiversity. Students will consider how plastic is affecting the survival of different species.



### Grade 7 - Interactions in the Environment:

B2.2 Identify biotic and abiotic components of an ecosystem, and describe the interactions between them, as well as the effects of plastic in ecological food chains, and changes in the ecosystem caused by human interference.

### Grade 8 - Water Systems:

E2.6 Describe various indicators of water quality, and explain the impact of human activity on those indicators. Discuss the impact of plastic production and disposal on the health of a watershed.

## Reservation Procedure

**Step 1:** Email us at [outdoored@nvca.on.ca](mailto:outdoored@nvca.on.ca) or call 705-424-1479 ext. 280 to speak with our environmental education staff and select a date and discuss program availability.

**Step 2:** Once your date has been selected and confirmed, you will receive a booking form.

**Step 3:** Complete, save and return the booking form to [outdoored@nvca.on.ca](mailto:outdoored@nvca.on.ca).

**Step 4:** You will be sent an email confirming your booking!

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