



*In partnership with the Hamilton Wentworth District School Board*

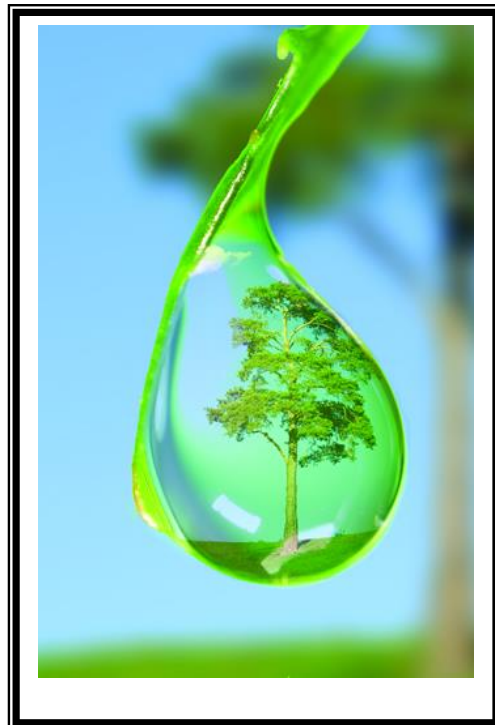
**2019 - 2020**

## **Program Guide & HWDSB Booking Information**

**Outdoor Environmental Education**

**Programming for Elementary Schools**

**Grades 1 – 8**



**Phone: (905)-627-1233      Fax: (905)-627-9722**

**Email: [hcaenved@conservationhamilton.ca](mailto:hcaenved@conservationhamilton.ca)**

*Connect your class to the out of doors through year round outdoor  
Environmental Education Programs offered by the Hamilton Conservation Authority.*



## DUNDAS VALLEY BOOKING REQUEST: 2019 - 2020

### OUTDOOR ENVIRONMENTAL EDUCATION FIELD TRIPS

**Complete Booking Request Form. Keep a copy & submit by fax or Email to:**

**Environmental Education Program Coordinator, Hamilton Conservation Authority**

**Fax:** 905-627- 9722    **Phone:** 905-627-1233    **Email:** [hcaenvd@conservationhamilton.ca](mailto:hcaenvd@conservationhamilton.ca)

**Note:**

- Select **one** half day program from the *Environmental Education Programs* options.
- Choose **one** half day program from the *Outdoor Active Program* listings
- All trips are **CATEGORY 1**, with the exception of water related activities which are *Category 2*
- An email **Confirmation** and **Teacher Information Package** will be sent out once the field trip has been confirmed.

<b>SCHOOL</b>		
<b>TEACHERS NAMES</b>		
<b>SCHOOL PHONE &amp; EXTENSION</b>		
<b>TEACHER CONTACT &amp; EMAIL</b>		
<b>GRADE</b> <i>Two classes/same grade</i>		
<b>NUMBER OF STUDENTS (2 Classes)</b> <i>Primary/Junior: Maximum 45</i> <i>Intermediate/Senior: Maximum 50</i>		
<b>STUDENTS REQUIRING SPECIAL CONSIDERATION</b> <i>Please let us know of any students requiring special consideration. We will try to modify our programs accordingly.</i>		
<b>ENVIRONMENTAL EDUCATION PROGRAM SELECTION</b> <i>(EXAMPLE – Birds of Prey)</i>	First Choice <input style="width: 100%;" type="text"/>	Second Choice <input style="width: 100%;" type="text"/>
<b>OUTDOOR ACTIVE PROGRAM SELECTION</b> <i>(EXAMPLE – WIDE GAMES)</i>	First Choice <input style="width: 100%;" type="text"/>	Second Choice <input style="width: 100%;" type="text"/>
<b>MONTH PREFERRED</b>		

**PLEASE NOTE:**

- All program participants are **expected** to dress appropriately for the weather & outdoor conditions
- *Inclement Weather:* During weather extremes a greater portion of our programs will be modified with more time conducted indoors.
- For safety reason, sandals, moccasins, or thin flat shoes are not recommended. Wear running or hiking shoes
- While we make every effort to accommodate students with special needs, it is not always possible given our rugged terrain.

**Cancellation Policy:** A cancellation fee of \$150 per school per day will apply if the school cancels the trip less than 15 office days prior to the scheduled field trip, and does not re-schedule the date within the next 4 weeks (Winter storms are exempt)



## 2019 - 2020 School Year

### Outdoor Environmental Education & Eco Outreach Programs

#### Interactive Outdoor Environmental Education

Connect your students with the outdoors through the outdoor environmental education programs and Eco outreach opportunities provided by the Hamilton Conservation Authority.

#### **DUNDAS VALLEY OUTDOOR ENVIRONMENTAL EDUCATION FIELD TRIPS:**

##### **PROGRAM LOCATION:**

- Dundas Valley Conservation Area, 650 Governors Road, Dundas, Ontario

##### **PROGRAM COST:**

- Cost is \$670 for two half-day (*two hour*) programs per class.
- ***This cost is covered by the Hamilton Wentworth District School Board in partnership with the Hamilton Conservation Foundation.***

##### **TRANSPORTATION:**

- Schools are required to make their own transportation arrangements

##### **GROUP SIZES:**

###### **Primary/Junior**

- 2 classes with a maximum of 45 students

###### **Intermediate/Senior**

- 2 classes with a maximum of 50 students

##### **EXTREME WEATHER:**

All programs continue rain, snow, or shine. ***Program participants are expected to dress appropriately for the weather and outside conditions.*** During inclement weather, programs will be modified and a greater portion of the programs will be conducted indoors. ***In extreme weather forecasting, HCA staff will contact the school in advance to make alternative arrangements and re-schedule the date.***

#### **BOOKING PROCEDURES**

Complete the following **2019 - 2020 Dundas Valley Booking Request** form and fax or email it in.

Teachers will be emailed a ***Trip Confirmation Letter*** and ***Pre-Trip Preparation Information*** with all the details pertaining to the field trip once a trip date has been finalized.

## 2019 - 2020 School Year

### Outdoor Environmental Education at the Dundas Valley Conservation Area

#### Teacher Information:

- Two classes from the same grade attend the program day
- Select one half day ***Environmental Education Program*** (2019-2020 Program Guide)
- Select one half day ***Outdoor Active Program*** (2019-2020 Program Guide)
- Arrange for adult volunteers to assist on the day (*Elementary 1:10; Intermediate/Senior 1:15*)
- Arrange bus transportation.
- Supervise class, maintain discipline and actively participate in all activities throughout the trip, including supervision at lunch.
- Advise HCA Education Team of any students requiring special consideration; such as extreme allergies, behavioral or mobility issues.
- **Program participants are expected to dress appropriately for the weather & outdoor conditions**

#### HCA Outdoor Education Staff Will ...

- Schedule, contact and confirm class field trips to the Centre – via Email.
- Provide teachers with a ***Trip Confirmation Letter*** and ***Pre-Trip Preparation Information***.
- Inform teachers by telephone of the possibility of program cancellation/rescheduled trip due to forecasted weather conditions.
- Teach the outdoor education program, with the active assistance and support of the classroom teacher and volunteers in attendance.

#### 2018-2019 HCA Environmental Education Team:

- Sandra Root H.B., Ph.Ed., B. Ed., M.Sc.Ed.; HCA Environmental Education Specialist
- James O'Neill, Environmental Education Program Coordinator
- Fiona Van Wissen B.A., B.Ed., HCA Environmental Instructor
- Elizabeth Watson-Morlog Hon. B.P.E., B. Ed., HCA Environmental Instructor

## 2019 – 2020 ENVIRONMENTAL EDUCATION PROGRAM LISTINGS:

### PRIMARY / JUNIOR

#### Note:

- Please select one *Environmental Education Program* and one *Outdoor Active Program*
- These programs are recommended for Grades 1 – 5
- Each program is approximately 2 hours in length.

### **WILDLIFE: *These programs are recommended for Grades 1 – 5***

#### **Seasonal Changes:**

Come explore nature as it changes from one season to the next. Visit the Wildlife Teaching Garden and look for clues to discover how creatures great and small prepare for the change in seasons. Examine the Tracking Pit for animal tracks; visit the Bird Blind to secretly watch for visiting birds. Discover how the change in seasons affects the Needs & Characteristics of Living Things! Curriculum Links: *Science & Technology Life Systems – Needs & Characteristics of Living Things; Growth & Changes in Animals; Habitats and Communities; Year Round*

#### **Predators**

Investigate the world of predators through actual specimens, games, activities and exploration. Examine skulls and other artifacts to find out about adaptations of predators and the natural communities where they live. Discover which predators live in the valley! Curriculum Links: *Science & Technology Life Systems – Habitats and Communities; Year Round*

#### **What's Alive?**

Investigate the difference between meadows and forests. Find out how plant and animal communities change over time and the challenges they face in order to survive. Investigate habitats big and small to find out **What's Alive** in the Dundas Valley. Curriculum Links: *Science & Technology Life Systems, Habitats & Communities; Year Round*

#### **Get Tracking!**

Discover how to track down clues to the secretive wildlife of the Dundas Valley. Learn how to recognize and identify the tracks, feeding marks, runways, bedding areas, dens and scats of animals living in the valley. Curriculum Links: *Science & Technology Life Systems – Habitats & Communities; Year Round*

#### **Hawks & Owls**

Discover what makes these birds such fascinating and effective predators! Following an introduction about the behaviours and characteristics of these birds, we will explore the Dundas Valley in search of these birds of prey. Curriculum Links: *Science & Technology Life Systems – Habitats and Communities; Year Round*

#### **In Search of Small Creatures**

This is an opportunity for students to explore first-hand the techniques of observation, identification and classification of insects, spiders and other small creatures found in the fields and forests of the Dundas Valley. Curriculum Links: *Science & Technology Life Systems – Habitats and Communities, Fall or Spring*



## **PLANTS: These programs are recommended for Grades 1 – 5**

### **Seasonal Changes in Plants**

Plants are amazing. They can live almost anywhere and they come in all different shapes, sizes and colours! Explore nature as it changes from one season to the next. Students will look for and observe seasonal changes in plants in the nearby teaching gardens. Curriculum Links: Science & Technology Life Systems – Needs & Characteristics of Living Things; Growth & Changes in Animals; Habitats and Communities. Offered Year Round.

### **Helping Pollinators**

What is a pollinator and why do they need our help? Just as animals depend on plants (*producers*) for survival, flowering plants depend on animals (*pollinators*) for their survival. Visit our Pollinator and Rain Gardens to find out which plants are good for pollinators.

Curriculum Links: Science & Technology Understanding Life Systems; Growth and Changes in Plants; Habitats and Communities.

### **Trees Please!**

Maple, Ash or Dogwood? White Pine, Spruce or Hemlock? Find out some tips and tricks to help classify and identify common deciduous and coniferous trees. Curriculum Links: Life Systems; Growth & Changes in Plants; Fall / Winter / Spring

### **Soil Ecology ~ Getting Down To Earth**

Investigate soil and discover its importance to plants, animals and people. Through hands-on investigation, identify the basic components of soil, compare different soil types, look for evidence of decomposition, erosion, and recognize the importance of composting. Weather Permitting / Curriculum Links: Science & Technology Life Systems – Habitats & Communities, Fall or Spring

## **HABITATS: These programs are recommended for Grades 1 – 5**

### **Habitats & Communities**

Investigate the differences between meadows and forests. Examine the interdependency of plants and animals within these habitats and explore the relationships between predator and prey, producers, consumers and decomposers in each of these unique habitats.

Curriculum Links: Science & Technology Life Systems – Habitats and Communities; Year Round

### **Weather Wise**

Students will investigate various aspects of weather such as; cloud formation, temperature, wind speed, wind direction, wind chill, and precipitation levels. Following their investigations, they will have fun playing “weather wise” games and activities. Curriculum Links: Science & Technology Life Systems – Habitats and Communities; Year Round

## **OUTDOOR ACTIVE PROGRAMS: Health and Physical Education**

### **PRIMARY / JUNIOR: These programs are recommended for Grades 1 – 5**

#### **Select one of the following Outdoor Active Programs**

**1) Nature Walk:** The Nature Walk is a great activity for students of all ages. This seasonally themed walk focuses on the natural history of our local plants and animals. We will incorporate a variety of interactive games and challenges along the way. Curriculum Links: Science & Technology Life Systems – Habitats and Communities, Health & Physical Education: Active Participation; Year Round

**2) Eco Games:** A series of age appropriate games and activities highlighting a variety of ecological concepts including food chains and animal adaptations. Activities will include a combination of running games, blindfold activities and quiet stalking games. Curriculum Links: Science & Technology Life Systems – Habitats and Communities; Health & Physical Education: Active Participation; Year Round



## ENVIRONMENTAL EDUCATION PROGRAM LISTINGS

### JUNIOR / INTERMEDIATE: Grade 6 & Up

#### Note:

- Please select one *Environmental Education Program* and one *Outdoor Active Program*.
- These programs are recommended for Grades 6 – 8.
- Each program is approximately 2 hours in length.

## ECOSYSTEMS:

### Diversity of Living Things:

Students will work in small groups to observe and understand how natural ecosystems are affected by biodiversity. They will then identify and evaluate the extent of natural and human impacts on biodiversity.

Curriculum Links: *Science & Technology Life Systems; Biodiversity; Conservation of Energy & Resources; Interactions in the Environment; Year Round*

### Wildlife Ecology:

Explore the relationships between *biotic* (living) and *abiotic* (nonliving) components in a natural environment. Understand the key components of selected ecosystems; including niche, camouflage, and predator/prey relationships.

Curriculum Links: *Science & Technology Life Systems; Biodiversity; Conservation of Energy & Resources; Interactions in the Environment; Year Round*

### Interactions in the Environment

Using a variety of field sampling techniques, students will investigate the differences between forest and meadow ecosystems, and examine the interdependency of plants and animals within each of these unique ecosystems. Curriculum Links: *Science & Technology Life Systems; Biodiversity; Conservation of Energy & Resources; Interactions in the Environment; Year Round*

### Water Systems: Category 2 (Grade 8 Only)

**\*Note:** *The number of in-stream aquatic programs is limited due to the environmental impact on Sulphur Creek.*

Students will work in supervised teams along the stream to map, measure & record its width, depth and rate of flow. Rubber boots, hip waders, measuring tapes and metre sticks will be available to help students with their observations. We will also observe and discuss various features such as erosion, floodplains, hazard lands & valleys. Curriculum Links: *Science & Technology Life Systems; Water Systems; Biodiversity; Conservation of Energy & Resources; Interactions in the Environment. Available September to October and April to May*

### Conservation Projects:

An opportunity for students to participate in hands-on stewardship and conservation projects. Projects are seasonal and may include: planting of native trees & shrubs; care of Pollinator & Rain Gardens; making brush shelters to improve wildlife habitat

Curriculum Links: *Science & Technology: Growth & Changes in Animals & Plants; Conservation of Energy & Resources; Year Round*

## **OUTDOOR ACTIVE PROGRAMS: Health and Physical Education: Grade 6 & Up**

- Please select one of the following Outdoor Active Programs
- **Curriculum Links:** Health & Physical Education; Active Participation
- Each program is approximately 2 hours in length.

### **1) Hiking the Bruce Trail:**

This is a guided introductory level hike. Trails winds through mature deciduous forests, hemlock groves, open fields and meadows, across small streams and through valleys. Curriculum Links: Life Systems: Habitats & Communities, Health & Physical Education: Active Participation; Year Round

### **2) Snowshoe Expedition (Category 1 trip) Weather Permitting**

Learn the basics of snowshoeing. Find out which style of snowshoe you prefer - Traditional or Hi -Tech. Challenge yourself as we explore the great outdoors. **All program participants require winter boots.**

**Please select a backup program in the event of unsuitable snow conditions.**

Curriculum Links: Science & Technology Life Systems Health & Physical Education: Active Participation, Winter - Weather Permitting

### **3) Get Oriented!! An Introduction to Orienteering**

Students are introduced to the basics of orienteering, including; parts of a compass, use of a compass to find direction, and map reading. Skills will be a put to the test as students use a map and compass to navigate their way through a designated area.

Curriculum Links: Geography: Developing Map Skills, Health & Physical Education: Active Participation; Year Round

### **Wide Games:**

**The following activities & games make use of large forest and field areas, encouraging students to work together co-operatively & strategize. Choose from one of the following activities. Please be aware that in many instances, the terrain is rugged and proper footwear is required.**

### **4) Survival of the Fittest (Grade 6 & Up)**

A predator/prey role playing game. The objective - to survive! The search is on for the basic necessities of food, water and shelter. The challenge – to avoid predators, and other dangers in order to survive. Curriculum Links: Science & Technology Life Systems, Health & Physical Education: Active Participation; Year Round

### **5) Capture the Flag (Grade 6 & Up)**

The goal of this game is for each team to strategize on how to seek out and capture the flag of the other team while keeping their own flag safe. Curriculum Links: Health & Physical Education: Active Participation; Year Round

### **6) Eco Games**

A series of active & passive games and activities highlighting a variety of ecological concepts including food chains and animal adaptations. Activities may include a combination of running games, blindfold activities and quiet stalking games. Curriculum Links: Science & Technology Life Systems – Habitats and Communities; Health & Physical Education: Active Participation; Year Round

### **7) Risk! (Grade 6 & Up)**

An outdoor active session requiring team work strategy. Based upon the board game, this activity utilizes zones of ownership in which teams are trying to advance their territory.

Curriculum Links: Health & Physical Education: Active Participation; Year Round