



# Chatham-Kent & Lambton Children's Water Festival

Water is the basis of all life in the world.  
Without it, nothing lives, nothing grows.

October 4, 5, 6, 2011  
C.M. Wilson Conservation Area

# Teacher's Planning Guide

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# Chatham-Kent & Lambton Children's Water Festival

**PURPOSE:** *Clean water and a healthy environment provide many ecological, social and economic benefits. The Chatham-Kent & Lambton Children's Water Festival will help improve our quality of life while maintaining sustainability in our community by fostering respect for water and encouraging environmental stewardship*

**INTRODUCTION:** Water plays an essential role in the economic, social and industrial development of our communities. Recent droughts and water contamination issues underline the importance and need for abundant, clean water. Educating our young people about water conservation practices and protection of our natural environment is essential to ensure a high quality water supply for future generations. The CKLCWF brings Grade 4 students outside the classroom, teaching them the importance of water conservation and protection in ways that they can easily understand and remember. Activities will be relevant to the Chatham-Kent and Lambton areas. Elementary students, high school volunteers, parents and teachers will develop pride of our natural resources and carry this to others in our community. By fostering respect for water and encouraging environmental stewardship, we can help maintain and improve the quality of life in Chatham-Kent and Lambton.

This Planning Guide has been compiled to prepare classes for participation at the festival and to aid teachers in further developing water related lessons in the classroom. All activities:

- Reflect the beliefs that guide education in our region – accountability, quality, equity, partnerships and a safe environment.
- Are connected to the curriculum in ways that help students achieve the desired expectations (Science & Technology, Social Studies, Mathematics, and Physical Education).
- Are designed to be as hands-on and experiential as possible in order to enhance and personalize the learning.

**WATER THEMES:** Each of the 42 Activity Centres is directly linked to the current Ontario Curriculum and has been organized into five categories.

The categories are:

## 1. Water Science \_\_\_\_\_

- The physical science of surface and groundwater
- The hydrological (water) cycle
- Watersheds
- The role of water quality and quantity to aquatic life

- Something Fishy Going On
- Muddy Waters
- Great Water Race
- Ponds and Pollywogs
- Wetland Friends
- Water Cycle Madness
- Water, Vital to Life
- What's Up Doc?
- You're Mostly Water
- Water Drop Quiz
- Porosity and Permeability
- Great Lakes Invaders

## 2. Water Technology \_\_\_\_\_

- The connection between water and technology on our daily lives
- The methods for locating, extracting, treating and distributing water
- Using Water to produce energy

- A-mazing Water Treatment
- Simply Divine
- Treating Trash
- Watershed Twister
- Where It Goes When I Go

### 3. Water Conservation

- The importance of using less water in our homes, schools and communities
- Comparing conventional and water-saving methods for daily activities
- Ways to reduce water consumption

- 3 X's a Day
- A Drop in the Bucket
- Lather Up!
- Royal Flush
- We Use That Much?

### 4. Water Protection

- The interdependence of people, plants, animals, soil, air and water
- Positive steps we can take to keep water and air clean

- Protecting Your Drinking Water
- Environmental Farm Plan
- A River Runs Through It
- Glow Germ Go
- Deadly Links
- Poisonous Pollution
- Oil Slick!
- Rolling Through the Shed
- Run Off or Recharge?
- Acid Rain
- Well Sealed
- Wildlife Wheel of Fortune
- Beach Postings

### 5. Water Attitude

- Historical, present day and future water utilization is compared.
- Ways in which culture affects ideas and behaviour
- Common misconceptions toward water and ways to improve current attitudes and consumption patterns

- Turtle Island
- Arsenic and Old Waste
- Bucket Brigade
- Doing the Laundry
- Pioneer Water Race
- Saturday Night Bath
- Up On The Roof

#### Curriculum Links

Overall and Specific Expectations are taken from the Ontario Curriculum.:

## CHECK THIS OUT!

### A great way to prepare your students with a range of Pre and PostActivities

Introduced in 2009 we have continued with a series of simple Pre and Post Activities related to water concepts and ideas as follows:

**Pre-Festival Activities:** Water Ways, Watershed Journey

**Post-Festival Activities:** Recount Activity, Persuade Me, Water Savers, Water Pledge, Well Art, Thrill and Spills Board Game, Dripial Pursuit, Crossword and Word Search

These activities are available on the CKLCWF website

**[www.ckwaterfest.com](http://www.ckwaterfest.com)**

# Chatham-Kent & Lambton Children's Water Festival

## PREPARING FOR YOUR VISIT

Planning will play an important part in the success of your visit to the Chatham-Kent & Lambton Children's Water Festival. Review of this planning guide is vital and will assist you in your preparation. The following checklist has been designed to help you prepare for your visit.

- Using your class list, divide students into small groups (5-6 students). Ensure that you have at least one adult supervisor per group.
- Advise all group supervisors that they are responsible for the behaviour of their group during the visit and that students must be accompanied by an adult at all times.
- Distribute copies of the Festival Scheduler and Site Map to all group leaders (Teachers and parent volunteers) – additional copies of the site map and festival scheduler may be downloaded from our website: [www.ckwaterfest.com](http://www.ckwaterfest.com)
- Familiarize yourself with the site map and plan ahead by selecting activities which best suit your classes interests. A Festival Scheduler has been provided for your convenience. However, this is only a guideline and it does not need to be followed in order.
- Start each group from a different location to avoid congestion. Each activity centre has been described for planning and organization.
- Please note that the lunch period is from 11:30 to 12:00. During lunch, ALL activity centres at the festival will be shut down. Students will not be permitted to eat lunch in or around the activity centres. A lunch area with entertainment will be supplied. Have students pack litter-less lunches. This means any litter (wrappers, bottles, cans) generated from a lunch must be taken back with you. "Pack it in ... Pack it out!"
- You will not be able to purchase food at the festival.
- By planning ahead and preparing all supervisors for your visit, everyone can take an active role in this valuable learning experience.

## CHECKLIST

- **For a Sunny Day:** Hats, sunglasses, running shoes, sunscreen for children.
- **For a Rainy Day:** Rain coat, rubber boots, warm clothing.
- **Lunch Time:** Children are to bring a litter-less lunch with them. This means any litter - *wrappers, bottles, cans* - generated from a lunch must be taken back with you. "Pack it in ..... Pack it out!" There are two drinking water fountains in the festival area so water bottles may be filled.
- **Site Map:** This will give your adult supervisors a good idea of the festival layout.
- **Festival Scheduler:** This will help your adult supervisors visit all the requested activities.
- **First Aid:** There will be a First Aid station located at the Festival Headquarters. Trained staff will be on-hand to deal with any first aid issues.
- **Lost and Found:** There will be a lost and found located at the Festival Headquarters at the entrance to the festival site. If a backpack or other item is lost, this is where you may find it! Children who become separated from their group will also be brought to the "Lost and Found". Volunteers will ensure that they are reunited with their group.

# CKLCWF Safety Protocol Basic Rules

- First Aid is available on site by the Festival Headquarters tent. This tent will also serve as a lost and found area  
- *please refer to the site map.*
- Cancellation Policy – Most of the participating schools and all of the High School Volunteers who assist in the festival are based out of School Bus Zone 8. If buses are cancelled in Bus Zone 8 due to fog or any other unsafe weather conditions, the Water Festival will not run that day. Announcements of school bus cancellations will be as outlined in school board policy in the attached web link:  
<http://www.schoolbusinfo.com/zone8.asp>
- In the event of sudden severe weather, Festival Committee Members will direct you to the nearest safe location.
- Should a child become separated from his or her group, they will be taken to the Festival Headquarters Tent and a Festival Committee Member will ensure they are reunited with their group.  
*Please refer to the site map*
- In the event of a serious health or accident emergency – call 911 and notify a Festival Committee Member. The On-Site First Aid will be deployed to the area immediately.
- In the event of a minor injury, direct the entire group involved to report to the First Aid Station at the Festival Headquarters Tent – *please refer to site map.*
- The Pond area and wooded areas are off limits and unsupervised.
- The campground, hill area, and playground equipment area are off limits – ropes, flagging tape and signage will be in place to remind everyone about these restricted areas.
- The campground area will be open to the public for the duration of the festival. Please notify a Festival Committee Member if you notice any suspicious persons within the festival area. Everyone except the children should be wearing a wrist band, vest or name tag.

**Festival Committee members will communicate via Radios on Channel 1**

**Safety Committee Members wear vests and will carry cell phones:**

Gale Steadman      Cell # 519-784-4373

Don Hector          Cell # 519-436-8597

# Chatham-Kent & Lambton Children's Water Festival

## FESTIVAL DAY!

- The festival will be held rain or shine! Please ensure that students come prepared with appropriate clothing and footwear. Note: In the event of extreme weather the festival will be cancelled.
- Upon arrival at C.M. Wilson Conservation Area, please have all students wait on the bus until a festival volunteer greets you and provides special instructions for the day. For the safety and security of all, please have an accurate number of students and the number of adults on each bus to provide to the festival volunteer.
- To enhance your visit, **please bring copies of the Festival Scheduler and Site Map.**
- Lunch is scheduled from 11:30 a.m. until 12:00 noon. Students will not be permitted to eat lunch in or around the activity centres. A lunch area with entertainment will be supplied. All activities will shut down at this time to allow our volunteers to enjoy their lunch and to reset any activity centres as necessary.
- Festival Volunteers will be wearing distinctive Chatham-Kent & Lambton Children's Water Festival aprons. Volunteers will be located in many areas throughout the site. Should questions arise, feel free to ask any volunteers. They will be happy to assist you.
- Some areas of the site will be off limit to student groups. These will be clearly marked and fenced off.
- Should a child become separated from his/her group they will be taken to the Festival Headquarters/Lost and Found. *Please see the Site Map (last page) for location.*
- The festival ends at 1:30 p.m. All activities will shut down at that time.
- Please help us to improve our service to your class by completing the teacher's evaluation form and returning to us at the address below.

Chatham-Kent & Lambton Children's Water Festival  
c/o The Ministry of Natural Resources  
Box 1168  
870 Richmond St,  
Chatham, Ontario  
N7M 5L8



# Chatham-Kent & Lambton Children's Water Festival

## FESTIVAL SCHEDULER

Festival Hours are 9:30 a.m. until 1:30 p.m. There is a lunch break scheduled from 11:30 until 12 noon. **All Activity Centres are closed and off limits during the lunch break so groups must remain in the lunch tent area until Activity Centres reopen.**

Entertainment will be provided during lunch under the large tent.

**Please use this schedule organizer for your class trip.**

**Please check the top 20 activity centres (next page) that you would like your students to visit,** although groups should be able to visit more than 20 activity centres. **Please note that activity centres should be visited in random order and not the order on this scheduler.** Festival volunteers will assist in ensuring that wait times are minimized by suggesting that groups move to available, less busy Activity Centres.

We suggest that each of the adult supervisors complete the following for their group and have available for their reference and use.

**Name of...**

**School:**

**Teacher:**

**Group Supervisor:**

**Students in Group:**

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

## FESTIVAL SCHEDULER

Festival Hours 9:30 to 1:30 / Lunch 11:30 to 12 noon (all activity centres closed)			
	1. 3 X a Day		22. Royal Flush
	2. A Drop in the Bucket		23. Runoff or Recharge
	<b>3. Turtle Island - Aboriginal Voices</b>		24. Saturday Night Bath
	<b>4. A-Maze-ing Water Treatment</b>		25. Simply Divine
	5. Protecting your Drinking Water		26. Acid Rain
	6. Environmental Farm Plan		27. Treating Trash
	7. Bucket Brigade		28. Water Cycle Madness
	8. A River Runs Through It		29. Wildlife Wheel of Fortune
	9. Glow Germ Go!		30. Watershed Twister
	10. Deadly Links		31. Water Vital to Life
	11. Doing the Laundry		32. We Use That Much?
	12. Something Fishy Going On		33. Well Sealed
	13. Muddy Waters		34. What's Up Doc?
	14. Great Water Race		<b>35. Where it Goes When I Go</b>
	15. Poisonous Pollution		36. You're Mostly Water
	16. Lather Up		37. Water Drop Quiz
	17. Ponds and Polywogs		<b>38. Arsenic and Old Waste</b>
	18. Oil Slick		39. Porosity and Permeability
	19. Pioneer Water Race		40. Up on the Roof
	<b>20. Wetland Friends</b>		41. Great Lakes Invaders
	21. Rolling through the Shed		42. Beach Postings

**Activity Centres #'s 3, 4, 20 & 35 controlled entry and sign-ups at activity required**  
**Activity Centre #'s 38 controlled entry with sign-up at the Headquarters tent**

## ACTIVITY CENTRES

### #1. Three X's a Day – Conservation

#### OVERVIEW

Students will simulate brushing their teeth using two methods (leaving tap running and turning tap off while brushing) and determine the amount of water used for each method.



#### CURRICULUM LINKS

Grade 3- Understanding Matter and Energy:  
Forces Causing Movement

Grade 5 - Understanding Earth and Space Systems:  
Conservation of Energy and Resources

### #2. A Drop in the Bucket - Conservation

#### OVERVIEW

By using a demonstration, students will be shown that although the earth is covered mainly by water, only a small amount is available for human consumption. Learning that water is a limited resource will help students appreciate the need to use water resources more wisely.



#### CURRICULUM LINKS

Grade 5 - Understanding Earth and Space Systems:  
Conservation of Energy and Resources

### #3. Turtle Island: Aboriginal Voices - Attitude

#### OVERVIEW

This activity tells a version of the Iroquois creation story, 'The Legend of the Sky', a legend on the creation of North America, 'Turtle Island'. In a visual props, the story will teach students the value of water as the first element of life, its significance and its importance as a resource through Aboriginal Traditional Knowledge.

ACTIVITY SIGN-UP REQUIRED



#### CURRICULUM LINKS

Grade 5 - Heritage and Citizenship:  
Early Civilizations

### #4. A-Maze-ing Water Treatment - Technology

#### OVERVIEW

Students will follow the path of a water drop through its journey of the water treatment and the importance of clean water while going through a playground maze.

ACTIVITY SIGN-UP REQUIRED



#### CURRICULUM LINKS

Grade 4 – Life Systems: Habitats and Communities

Grade 5 – Understanding Matter and Energy:  
Properties of and Changes in Matter

Grade 5 - Energy and Control:  
Conservation of Energy

## #5. Protecting Your Drinking Water

### - Protection

#### OVERVIEW

The children watch how water moves through soil and rocks underground then travels eventually to streams, ditches, lakes and rivers with the use of an Enviroscape. When water is underground, it is called “Groundwater”. The soil and rocks that store the groundwater are called, “Aquifers”.



#### CURRICULUM LINKS

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

Grade 3 - Understanding Matter and Energy:  
Forces Causing Movement

Grade 4 - Understanding Earth and Space Systems:  
Rocks and Minerals

Grade 5 - Understanding Life Systems:  
Human Organ Systems

## #6. Environmental Farm Plan

### - Protection

#### OVERVIEW

Students will role-play as landowners and have to complete an environmental farm plan to assess their ‘farm’ by identifying areas of environmental concern and discuss ways to improve them.



#### CURRICULUM LINKS

Grade 3 - Canada and World Connections:  
Urban and Rural Communities

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

Grade 4 - Understanding Life Systems:  
Habitats and Communities

## # 7. Bucket Brigade - Attitude

#### OVERVIEW

Students will compare fire fighting methods of the past to those of today. They will learn the importance of City and County water service in the form of hydrants in fire fighting. Students will pretend to be children living in the past and take part in fighting a simulated fire by using buckets that are filled from a “well” and passed down a human assembly line to put out a “fire” at the end of the line.



#### CURRICULUM LINKS

Grade 3 - Heritage and Citizenship:  
Early Settlements in Upper Canada

## #8. A River Runs Through It - Protection

#### OVERVIEW

Students look at how water moves through a watershed and the impact on water quality by human interactions. Students will learn the important role of wetlands in protecting and enhancing water quality. Students will examine up-close the role producers play in filtering and cleaning water.



#### CURRICULUM LINKS

Grade 3 - Canada and World Connections:  
Urban and Rural Communities

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

Grade 4 - Understanding Life Systems:  
Habitats and Communities

## # 9. Glow Germ Go! - Protection

### OVERVIEW

By practicing appropriate techniques, students will become aware of the importance of hand-washing. Unclean hands are responsible for numerous bacterial and viral illnesses at places such as home, school, restaurants and hospitals.



### CURRICULUM LINKS

Grade 2 - Healthy Living

Grade 4 - Heritage and Citizenship  
(Medieval Times )

Grade 5- Life Systems, ( Human Organ Systems)

## #10. Deadly Links - Protection

### OVERVIEW

Through a role-play activity, students will experience how organisms are exposed to toxic chemicals by becoming part of an aquatic food chain to witness how toxins become more concentrated (biomagnification) as ones moves up the food chain.



### CURRICULUM LINKS

Grade 4 - Understanding Life Systems:  
Habitats and Communities

## #11. Doing the Laundry - Attitude

### OVERVIEW

In this activity students will compare the laundry methods of the 1840s to modern methods by having the opportunity to use historical mechanical equipment. Students will look at how ‘doing the laundry’ has changed in particular to the amount of water used today to wash our clothes and discuss ways to conserve both water and energy at home.



### CURRICULUM LINKS

Grade 3 - Understanding Matter and Energy:  
Forces Causing Movement

Grade 3 - Heritage and Citizenship:  
Early Settlements in Upper Canada

Grade 5 - Energy and Control:  
Conservation of Energy

## #12. Something Fishy Going On - Science

### OVERVIEW

In this activity students will investigate the life cycle of fish species living in the Great Lakes and learn the importance of protecting all of their habitat requirements and water quality.



### CURRICULUM LINK

Grade 4 - Understanding Life Systems:  
Habitats and Communities

## #13. Muddy Waters - Science

### OVERVIEW

Using a stream table, students will study the effects of water erosion on bare soil and soil that is stabilized by buffer strips and wetlands. Students will learn the impacts of flooding and sedimentation to our local watersheds.



### CURRICULUM LINKS

Grade 3 - Canada and World Connections:  
Urban and Rural Communities

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

Grade 3 – Understanding Life Systems:  
Growth and Changes in Plants

## #14. Great Water Race - Science

### OVERVIEW

Students can manipulate these models to discover what controls the direction and speed of water flow.

Students learn the concepts of slope and angle.



### CURRICULUM LINKS

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

Grade 3 - Understanding Matter and Energy:  
Forces Causing Movement

Grade 5 - Understanding Matter and Energy:  
Properties of and Changes in Matter

## # 15. Poisonous Pollution - Protection

### OVERVIEW

This activity will help students understand hazardous substances, wastes and their effects on the environment by watching an enviroscape demonstration of how pollution contaminates groundwater.



### CURRICULUM LINKS

Grade 4 - Understanding Life Systems:  
Habitats and Communities

Grade 5 - Understanding Life Systems:  
Human Organ Systems

## #16. Lather Up! - Conservation

### OVERVIEW

In this activity, students find out how much water they use by showering each day. They compare the water use from a normal showerhead and a low-flow showerhead.



### CURRICULUM LINKS

Grade 3 - Understanding Matter and Energy:  
Forces Causing Movement

Grade 3 - Understanding Earth and Space Systems:  
Conservation of Energy and Resources

## # 17. Ponds and Pollywogs - Science

### OVERVIEW

Using nets, students will discover different organisms, their adaptations to aquatic environments and their function in their aquatic environments by sampling the CM Wilson Pond. Students will have to identify what they find and discover what role their organism plays in a wetland web of life. Students will also explore how humans use these small organisms to determine the health of a watershed in terms of water quality.



### CURRICULUM LINKS

Grade 4 - Understanding Life Systems:  
Habitats and Communities

**#18. Oil Slick!**  
**- Protection**

**OVERVIEW** Students learn about the sources and hazards of oil pollution in our natural environments and how this pollution can affect wildlife and their habitats.



**CURRICULUM LINKS**

- Grade 4 - Understanding Life Systems: Habitats and Communities

**# 19 Pioneer Water Race - Attitude**

**OVERVIEW**

By taking a trip back in time, students will investigate how pioneers obtained water needed for their family and farm animals. By participating in a water-carrying race, students will experience how pioneers (as well as people in some parts of the world today) transported water, and compare this to municipal and rural water delivery systems in our own community.



**CURRICULUM LINKS**

- Grade 3 - Canada and World Connections: Urban and Rural Communities
- Grade 3 - Heritage and Citizenship: Early Settlements in Upper Canada
- Grade 5 - Understanding Earth and Space Systems: Conservation of Energy and Resources

**#20. Wetland Friends - Science**

**OVERVIEW**

Students learn about and get an up close look at the many species of reptiles and amphibians that many Ontario wetlands their home. Students will learn that they can play a role in the protection and conservation of wetland amphibians and reptiles, including many that are species at risk.

**ACTIVITY SIGN-UP REQUIRED**



**CURRICULUM LINKS**

- Grade 4 - Understanding Life Systems: Habitats and Communities

**#21. Rolling Through the Shed - Protection**

**OVERVIEW**

Students will learn that there are many sources of water pollution affecting the quality of water within a watershed. Students will pretend to be a water droplet as they travel through the watershed encountering different contaminates as they move downstream.



**CURRICULUM LINKS**

- Grade 4 – Understanding Life Systems: Habitats and Communities

## #22. Royal Flush - Conservation

### OVERVIEW

Students will examine how much water can be saved by comparing the differences between water efficient (low flow) toilets and regular-flow toilets.



### CURRICULUM LINKS

Grade 3 - Understanding Matter and Energy:  
Forces Causing Movement

Grade 3 - Understanding Earth and Space Systems:  
Conservation of Energy and Resources

## #23. Run Off or Recharge? - Protection

### OVERVIEW

In this demonstration, students will examine the ways in which water recharge rates change based on which type of surface precipitation falls on. Students will determine whether water will runoff or recharge groundwater when it falls on four surface types of vegetation, bare soil, gravel and pavement and the impacts.



### CURRICULUM LINKS

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

Grade 3 – Understanding Life Systems:  
Growth and Changes in Plants

## #24 Saturday Night Bath - Attitude

### OVERVIEW

In this activity students will compare hygiene habits and water usage with those of children more than 85 years ago by learning about the routine of a Saturday Night Bath.



### CURRICULUM LINKS

Grade 3 - Heritage and Citizenship:  
Early Settlements in Upper Canada

Grade 5 - Energy and Control:  
Conservation of Energy

## #25. Simply Divine - Technology

### OVERVIEW

In this activity, students will learn about the art of “divining” or “dowsing” and its use in finding critical water sources historically and today. Students will be shown and get an opportunity to try using a divining rod (forked stick) to demonstrate its ability to find underground water.

### CURRICULUM LINKS

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

Grade 3 - Heritage and Citizenship:  
Early Settlements in Upper Canada

Grade 4 - Understanding Earth and Space Systems:  
Rocks and Minerals

## #26. Acid Rain - Science

### OVERVIEW

In this activity, the students will be introduced to the pH scale and will test different household substances and water samples to determine where



they lie on the pH scale. Students will learn the impacts to ecosystems when pH changes.

### CURRICULUM LINKS

Grade 3 - Understanding Life Systems:  
Growth and Change in Plants

Grade 4 - Understanding Life Systems:  
Habitats and Communities

Grade 5 - Understanding Matter and Energy:  
Properties of and Changes in Matter

## #27. Treating Trash - Technology

### OVERVIEW

Students will learn about treating trash through two activities: 1) sorting recyclables and 2) watching an enviroscape demonstration of a landfill site.



### CURRICULUM LINKS

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

Grade 4 - Understanding Life Systems:  
Habitats and Communities

Grade 5: Understanding Life Systems:  
Human Organ Systems

## #28. Water Cycle Madness - Science

### OVERVIEW

This activity introduces the students to the water cycle by way of a simple game, a model and a poster. The model and poster show how the water "cycle" is a continuous repetition of like events. The movement of water



molecules from bodies of water, the land and living things on the land into the air and back again.

### CURRICULUM LINKS

Grade 5 - Understanding Matter and Energy:  
Properties of and Changes in Matter

## #29. Wildlife Wheel of Fortune - Science

### OVERVIEW

Students will learn that animals are adapted to different types of habitat based on their requirements of food, water, shelter, and space. Students will spin the 'Homes for Wildlife' wheel and have to match a living organism to the selected habitat: forest, wetland or prairie while learning that natural habitat is important for both wildlife and humans.



### CURRICULUM LINK

Grade 4 - Understanding  
Life Systems:  
Habitats and Communities

### #30. Watershed Twister

- *Science*

#### OVERVIEW

In an adaptation of the game Twister, students will learn the geography of their watershed while being tested on their water trivia knowledge.

#### CURRICULUM LINKS

Grade 3 - Canada and World Connections:  
Urban and Rural Communities

Grade 4 - Understanding Life Systems:  
Habitats and Communities

Grade 4 - Canada and World Connections:  
Canada's Provinces, Territories, and Regions

Grade 5 - Understanding Matter and Energy:  
Properties of and Changes in Matter

Grade 5 - Understanding Earth and Space Systems:  
Conservation of Energy and Resources

### #31. Water, Vital to Health - *Science*

#### OVERVIEW

A variety of hands on demonstrations will be used to help students to discover why water is essential to our body's organs and life systems.

#### CURRICULUM LINKS

Grade 5 - Understanding Life Systems:  
Human Organ Systems



### #32. We Use That Much? - *Conservation*

#### OVERVIEW

Students use an interactive display to investigate how much water is used in every day activities in relation to a known reference (2 litre pop bottles).



#### CURRICULUM LINKS

Grade 3 - Understanding Matter and Energy:  
Forces Causing Movement

Grade 3 - Understanding Earth and Space Systems:  
Conservation of Energy and Resources

### #33 Well Sealed - *Protection*

#### OVERVIEW

Students will learn how easily a well can become contaminated, resulting in water that is unsuitable for drinking, by using manual pumps (siphons) to pump water out of a well.



#### CURRICULUM LINKS

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

Grade 4 - Understanding Earth and Space Systems:  
Rocks and Minerals

### #34. What's Up Doc? - Attitude

#### OVERVIEW

Students will learn about certain water-borne diseases by solving a medical mystery. In doing so they will be able to compare their current understanding of how diseases can be spread with ideas at the turn of the century. Cleaner water and water contamination will also be discussed.



#### CURRICULUM LINKS

- Grade 3 - Heritage and Citizenship:  
Early Settlements in Upper Canada
- Grade 4 - Understanding Life Systems:  
Habitats and Communities
- Grade 5: Understanding Life Systems:  
Human Organ Systems

### #35. Where It Goes When I Go - Technology

#### OVERVIEW

Students will learn the sewage treatment process as well as realize the importance of clean water by pretending to be sewage that goes through an obstacle course to emulate the steps taken to become cleaned, disinfected, and ready to go back to the river.



ACTIVITY SIGN-UP REQUIRED

#### CURRICULUM LINKS

- Grade 4 – Life Systems:  
Habitats and Communities
- Grade 5 – Understanding Matter and Energy:  
Properties of and Changes in Matter
- Grade 5 - Energy and Control:  
Conservation of Energy

### #36. You're Mostly Water - Science

#### OVERVIEW

In this activity, students will learn that the human body is mostly water and that it need an adequate amount of clean water to survive by using a teeter-totter to balance their body weight.



#### CURRICULUM LINKS

- Grade 5 - Understanding Life Systems:  
Human Organ Systems

### #37. Water Drop Quiz - Science

#### OVERVIEW

Students answer questions posted on water drops around the festival about water conservation and protection

#### CURRICULUM LINKS

- Variety of Expectations Covered

### #38. Arsenic and Old Waste - Protection

#### OVERVIEW

Children will listen and participate in an interactive mystery game set in Kent County in 1890. There will be an actor who will lead a performance and set the scene and provide the clues to enable the students to solve a crime. The children will learn about the historical dumping of industrial waste into waterways, and the resulting illnesses caused by this practice. **ACTIVITY SIGN-UP REQUIRED.**



#### CURRICULUM LINKS

- Grade 3 - Heritage and Citizenship:  
Early Settlements in Upper Canada
- Grade 4 - Understanding Life Systems:  
Habitats and Communities
- Grade 5 - Understanding Life Systems:  
Human Organ Systems

### #39. Porosity and Permeability - Science

#### OVERVIEW

Students will discover through experimentation, which materials hold water and which materials allow water to flow through them. The earth is made up of many types of earth materials that help to hold water or allow water to flow through to plants.

#### CURRICULUM LINK

- Grade 3 - Understanding Earth and Space Systems:  
Soils in the Environment
- Grade 3 - Understanding Matter and Energy:  
Forces Causing Movement
- Grade 4 - Understanding Earth and Space Systems:  
Rocks and Minerals

### #40. Up On the Roof – Attitude

#### OVERVIEW

Students will explore the use of rain barrels and determine how they can help us maximize our use of water by playing a timed running game.



They will explore the use of green roofs by observing a model.

#### CURRICULUM LINK

- Grade 3 - Heritage and Citizenship:  
Early Settlements in Upper Canada
- Grade 4 - Understanding Life Systems:  
Habitats and Communities
- Grade 5 - Understanding Earth and Space Systems:  
Conservation of Energy and Resources

### #41. Great Lakes Invaders - Protection

#### Overview

In this activity, students will discover how invasive species impact our Great Lakes by out-competing native species for food and space through a fun adaptation of the game musical chairs.

#### CURRICULUM LINK

- Grade 4 - Understanding Life Systems:  
Habitats and Communities

## NEW ACTIVITY

### #42. Beach Postings

#### - Protection

##### Overview

This activity station will demonstrate to the students how land use can affect water quality and ultimately, the state of our beaches. A hands-on exercise will involve some shrub planting along the shoreline as part of this activity.

##### CURRICULUM LINK

- Grade 3 - Understanding Earth and Space Systems: Soils in the Environment
- Grade 4 - Understanding Earth and Space Systems: Rocks and Minerals

## SPECIAL NOTICES

### # 3. Turtle Island: Aboriginal Voices

### # 4. A-Maze-ing Water Treatment

### # 20. Wetland Friends

### # 35. Where It Goes When I Go

Due to the popularity of the above 3 Activity Centres entry systems have been established to help control long line-ups and waiting times. Each group should have the opportunity to participate in each of these areas 1 time only.

### # 38. Arsenic and Old Waste

Please sign up for the Arsenic and Old Waste play at the Festival Headquarters Tent. This Activity takes place in the barn with the doors closed on a regulated time schedule. Once the play has begun admittance is restricted. The seating is limited for each show so it is recommended to sign up early to ensure you are able to reserve a spot.

Thank you for your patience and understanding as the goal is to provide each group the opportunity to enjoy all of these popular Activity Centres.

