

Activity

1 Bucket Brigade

Description

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



2 Moo's Thirsty
(formerly
"Watering the
Animals")

Students will experience watering farm animals with present day methods. Students will learn the quantity of water that various farm animals consume and how modern watering equipment conserves water and allows for 24-7 access to the water they need.

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



3 Up on the Roof

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.

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



4 Wetland Friends

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

Grade 4 - Understanding Life Systems: Habitats and Communities



5 Make Your Way By Water (NEW for 2023)

Everyone knows that water is essential to life, but did you know long ago, it was key to the transportation of people as well as goods. It still is today, though to a lesser extent. In this activity students will learn how important water was as a means of transportation and which waterways were most often used in our community.

6 Ponds & Polywogs

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.

Grade 4 - Understanding Life Systems: Habitats and Communities



6A Flex Your Freshwater Mussels

Students will explore local freshwater mussel species and learn about the importance of these fascinating animals.



7A Glow Germ Go!

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

Grade 2 - Healthy Living
Grade 4 - Heritage and Citizenship (Medieval Times)
Grade 5 - Life Systems, (Human Organ Systems)

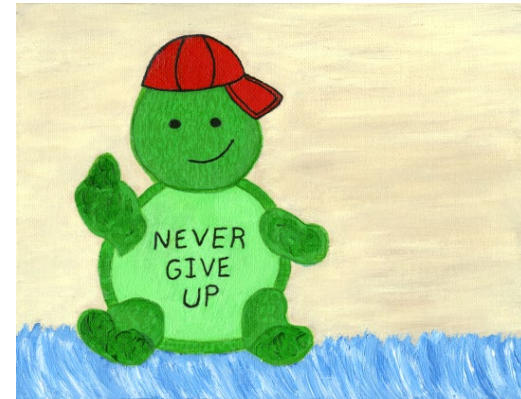


7B Water Footprints

Everything we use, wear, buy, sell, and eat takes water to make. With the help of 3D printed water droplets students visualize the water footprint of many everyday items. The water footprint measures the total amount of water used directly and indirectly in the production and transportation of goods. Students will estimate various everyday items' water footprints through manipulation of the 3D printed water droplets

7C Never Give Up

The Everett Family will talk about their personal efforts to rescue turtles crossing the Long Point Causeway in an area of Long Point Bay and other efforts to help snakes and frogs. This is an interactive activity with a book reading and personal stories of working with these species in the Long Point Bay area.



8 Doing The Laundry

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.

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



9 Saturday Night Bath

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

Grade 3 - Heritage and Citizenship: Early Settlements in Upper Canada
Grade 5 - Energy and Control: Conservation of Energy



10 Porosity & Permeability

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.

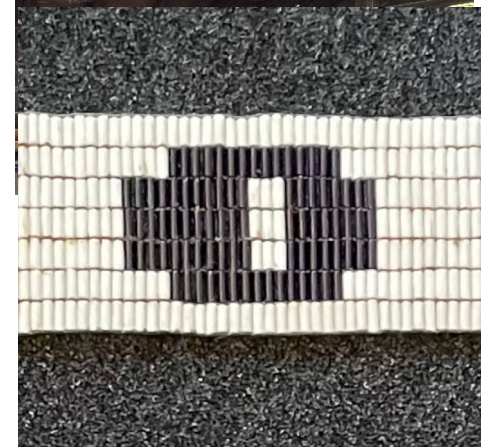
Grade 3 - Understanding Earth and Space Systems: Soils in the Environment Grade 3 - Understanding Matter and Energy: Forces Causing Movement Grade 4 - Understanding Earth and Space Systems: Rocks and Minerals



11 Wampum Talk

Activity Overview: Students will learn about treaties and Wampum belts and the important role they have in protecting rights, responsibilities and relationships of First Nations and non-First Nations peoples. Students will state the “Earth Steward and Water Protector Pledge” and be asked to create a strand of beads to be added to our ‘Water Protector Wampum belt’.

Gr 4- Heritage and Identity: Early Societies to 1500 CE; Gr. 5- Heritage and Identity: Interactions of Indigenous Peoples and Europeans Prior to 1713, in what would eventually become Canada;



12 Splish N' Splash Safety

Students will learn the importance of life jacket safety. Students will participate in a relay race that will allow them to practice and gain experience in wearing a lifejacket.



13 Water Cycle Madness

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.

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



14 Rolling Through the Shed

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 contaminants as they move downstream.

Grade 4 – Understanding Life Systems: Habitats and Communities



15 Watershed Twister (Not running this Activity in 2023)

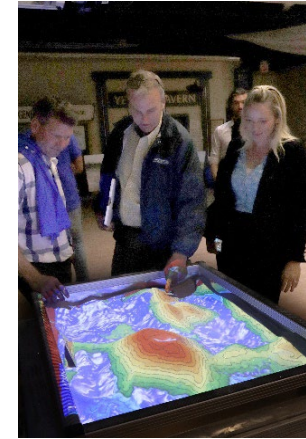
In an adaptation of the game Twister, students will learn the geography of their watershed while being tested on their water trivia knowledge.

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



15 Make It Rain
Virtual Reality
Sand Box

Learn about watersheds and flooding through a virtual reality sandbox.



16 Protecting Your
Drinking Water

The children watch how water moves through soil and rocks underground then travels eventually to streams, ditches, lakes and rivers with the use of a 3D plexiglass model. When water is underground, it is called “Groundwater”. The soil and rocks that store the groundwater are called, “Aquifers”.

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



17 Poisonous
Pollution

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.

Grade 4 - Understanding Life Systems: Habitats and Communities
Grade 5 - Understanding Life Systems: Human Organ Systems



18 Treating Trash

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

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



19 Wildlife Wheel of Fortune

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.

Grade 4 - Understanding Life Systems: Habitats and Communities



20 Arsenic & Old Waste (Play)

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.

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
Grade 3, 4 and 5 – Drama and Dance
Grade 3, 4, and 5 – Language Arts: Media Literacy



21 Farmer and The Fish
Modern farmers learn about watersheds and how to protect waterways.

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

22 Environmental Farm Plan
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.

Grade 4 - Understanding Life Systems: Grade 3 - Canada and World Connections: Urban and Rural Communities
Grade 3 - Understanding Earth and Space Systems:



23 A Drop in the Bucket
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.

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



24 Farm Grow Bingo
As the largest single group of landowners in Canada, Farmers are in a unique position to provide solutions to conservation challenges such as water quality, air quality, climate change and biodiversity loss

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



25 Runoff or Recharge

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.

Grade 3 - Understanding Earth and Space Systems: Soils in the Environment Grade 3 – Understanding Life Systems: Growth and Changes in Plants



26 Oil Slick

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

Grade 4 - Understanding Life Systems; Habitats and Communities



27 You're Mostly Water

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.

Grade 5 - Understanding Life Systems: Human Organ Systems



28 Something Fishy

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.

Grade 4 - Understanding Life Systems: Habitats and Communities



29 Simply Divine

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.

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



30 We Use That Much

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).

Grade 3 - Understanding Matter and Energy: Forces Causing Movement
Grade 3 - Understanding Earth and Space Systems: Conservation of Energy and Resources



31 Muddy Waters

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.

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
Grade 4 - Understanding Life Systems: Habitats and Communities



32 Great Water Race

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

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



33 3 x's a Day

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.

Grade 3- Understanding Matter and Energy: Forces Causing Movement
Grade 5 - Understanding Earth and Space Systems: Conservation of Energy and Resources



34 Royal Flush

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

Grade 3 - Understanding Matter and Energy: Forces Causing Movement
Grade 3 - Understanding Earth and Space Systems: Conservation of Energy and Resources



35 Deadly Links

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.

Grade 4 - Understanding Life Systems: Habitats and Communities



36 Lather Up

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

Grade 3 - Understanding Matter and Energy: Forces Causing Movement
Grade 3 - Understanding Earth and Space Systems: Conservation of Energy and Resources



37 Water Vital to Life

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.

Grade 5 - Understanding Life Systems: Human Organ Systems



38 What's Up Doc

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.

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 Beach Postings.

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.

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



40 Where It Goes
When I Go

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.

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



41 Learn to Fish

An interactive activity where students will learn how to cast a fishing rod (dry land casting). Local anglers and Fish and Game Clubs will lead .

42 Mean Green
Algae Machine

Activity Overview: This activity will help students understand why algal blooms are happening in local waters (Lake Erie , Thames River) why they're bad for the environment and ourselves, and things we can do to stop them.

