



Teacher Resources

Books

(Available at the Peterborough Public Library)

- **The Amazing Water Book:**
Deborah Seed: Kids Can Press. ISBN 1550740032
- **Earthcycles and Ecosystems:**
Beth Savan. Toronto: Kids Can Press. ISBN 155074013Y
- **A Primer on Fresh Water: Environmental Citizenship Freshwater Series:**
Environment Canada. (Reference only) ISBN 0662287651
- **The Jumbo Book of Science, 136 of the Best Experiments:**
The Ontario Science Centre. ISBN 1550741977
- **Scienceworks: An Ontario Science Centre Book of Experiments:**
Kids Can Press. ISBN (bound) 0919964818 (paperback) 0919964613
- **The Water Sourcebook, Grades 3-5:**
Tennessee Valley Authority: The Water Environmental Association.
- **The Greenpeace Book of Water.**
Klaus Lanz. Sterling Publications. ISBN 0806942126
- **Down The Drains: Water Use and Pollution.**
Barbara James. ISBN 0750201940
- **A Drop of Water: A Book of Science and Wonder.**
Walter Wick. Scholastic Press. ISBN 0590221973
- **Where Does Water Come From?**
C. Vance Cast. Barron's Educational Series. ISBN 0812046420
- **The Health of Our Water: Toward sustainable agriculture in Canada.**
Agriculture and Agri-Food Canada, Research Branch. ISBN 0662284895

Ministry of Education Curriculum Units

Available online at www.ocup.org

Grade 3 – Social Studies

- Early Communities In Ontario
- Long Ago Before I Was Born

Grade 3-4

- Life in an Ecosystem
- Life Systems
- Not In My Backyard (Integrated Arts Unit)

Grade 4

- Life Systems: Habitats and Communities
- At The Watering Hole (Integrated Arts Unit)

Grade 4/5

- Inside/Outside

Videos & Periodicals

Available at Peterborough Public Library

- **Wake up, Freddy.**

Bullfrog Films. Video 21 minutes. Grades 2-7. 1994, with Study Guide. Produced by Christopher O'Donnell.

Freddy wakes up the sound of his blaring alarm. In an amazing camera journey, we follow the path energy takes to get to Freddy's house and to power his alarm. When Freddy takes his morning shower we see where the water comes from and how it travels through the pipes and processing stations all the way to Freddy's showerhead. Then we watch the used water wash down Freddy's drain. Guess where we go next!

Bullfrog Films. Box 149, Oley, PA, USA, 19547. Phone (610) 779-8226. Call TOLL FREE (800) 543-FROG (3764) or FAX (610) 370-1978. Email: bullfrog@iqc.apc.org

- **Journey of the Blob.**

Bullfrog films. Video. 10 minutes. Grades P-16. ISBN: 0-7722-0243-5. (see above for ordering info) Also part of the Look Again Series (see below)

A boy makes a decision about how to dispose of a green glob he has concocted. What will happen if he dumps it into a stream? Where does water come from and where does it go?

This film illustrates the water cycle and raises many questions about environmental responsibility and the consequences of our decisions.

- **Look Again Series. (various parts).**

Video, 56 minutes. Grades P-6. With Teachers Guide. Produced by the National Film Board of Canada, Six Films by Bill Maylone.

All Children want to make sense of the world around them. These 6 films without dialogue build upon and develop children's natural interest in their surroundings.

- **Planet Earth: Caring for our Environment.**
Video 28 minutes. Ordering number 9191 175. Produced by the National Film Board of Canada
This film illustrates the water cycle, while raising questions about environmental responsibility and the consequences of our decisions.
- **Water Supply in Canada: How water is supplied.**
Video, 20 minutes. Classroom video, Burnaby, BC.
Discusses how water is supplied and its domestic, industrial and agricultural uses. Examines the benefits and costs of dams, effects on migration of mammals and fish, and the river downstream.
- **Water Works.**
Video, 27 minutes. Porpoise Bay Productions, 1991.
A look at the Great Lakes basin, its origins and characteristics, all looked at through informative field trips.
- **Acid Rain.**
Video, 30 minutes. Schlessinger Video Productions.
The causes of acid rain and its effect on land forms, soil, crops, lakes, animals and humans are explained. The state of legislation (1993) and other measures taken to minimize the damage of acid rain are also discussed.

Publications available from Environment Canada

Education levels are specified for each publication (primary, intermediate, secondary). These can be obtained free of charge using the order form on their website, http://www.ec.gc.ca/water/en/info/pubs/e_teach.htm

- **Acid Rain Colouring Poster.**
Designed to teach children about the concerns and effects of acid rain on our environment.
- **Every Drop Counts: A Speaker's Kit on Water Conservation and Water Efficiency.**
Downloadable off the website. The kit consists of a PowerPoint presentation (slides and speaking notes) and support material.
- **Explore Water with Holly Heron.**
Available on the site as a PDF file and from Environment Canada as a colouring book. Targeted at ages 5 to 9 years, showing how to become better environmental citizens.
- **From the Mountains to the Sea: A Journey in Environmental Citizenship.**
Available on the site as a PDF file. Children's activity book illustrating the interdependence of all parts of all an ecosystem.
- **Let's Not Take Water For Granted.**
Available on the site as PDF files. Teaching suggestions, reading materials and learning activities to help teachers of Grades 5 to 7 use the information from A Primer on Fresh Water. Covers nine topics plus introduction and vocabulary.

- **A Primer on Fresh Water: Questions and Answers.**
Answers a wide range of questions on different aspects of water, its physical characteristics, availability both above and below ground, its uses, and how it's shared and managed.
- **Resource Kit: Kids WaterFest at the Museum of Industry (Stellarton, NS).**
Available on the site as a PDF file. Complete kit is 773 KB. Educator's notes and student activities designed to provide an overview of the importance of water.
- **Water for the 21st Century (poster)**
The poster asks people to take action to conserve and protect our fresh water as we enter the 21st century.
- **Water Fact Sheets:**
A collection of fact sheets in the Freshwater Series. Some are out of print but can be viewed on the website.
 - A-1: Water – Nature's Magician
 - A-2: Water – Here, There and Everywhere
 - A-3: Clean Water – Life Depends On It
 - A-4: Water Works!
 - A-5: Groundwater – Nature's Hidden Treasure
 - A-6: Water Conservation: Every Drop Counts
 - A-7: Water, Art and the Canadian Identity – At the Water's Edge
 - A-8: Water – the Transporter
 - A-9: Water – Vulnerable to Climate Change

Resources available for purchase from the American Water Works Association

6666 West Quincy Ave., Denver, Colorado 80235, 1 800 926 7337, Fax: 303 347 0804.

There is a charge for most of their publications. Contact AWWA for information and current prices. Their website can be found at <http://www.awwa.org>.

Consumer Information and Education

Fact Sheets:

Chlorination of Drinking Water

The facts about Bottled Water and Home Water Treatment Devices

Bill Stuffers

- **It's a Natural,**
Pamphlet filled with information about how to get a water conserving landscape.
- **H₂O Makes Everything Go!**
Pamphlet that quizzes users with 9 questions about water and it's many uses.
- **Yes, you can....**
Explains how to fix a leaky faucet by yourself.
- **Yes, you can....**
Install a water aerator
- **25 Things you can do to Prevent Water Waste**
9 ways in the bathroom, 6 ways in the kitchen and laundry room and 10 ways outside to prevent water waste
- **Five Basic ways to Conserve Water.**
Information on 5 easy ways to save water
- **A Consumers Guide to Water Conservation: The inside story**
Learn how to check for leaks, conserve water in the shower and reduce the amount flushed
- **A Consumers Guide to Water Conservation: The outside story**
8 tips for conserving water outside
- **Get your Hands Dirty**
Describes soil textures, 7 types of organic material.
- **How does your Garden Grow?**
Offers alternatives to reduce the amount of water needed for your garden.
- **Lawn Watering Tips**
Offers tips on how much and when to water your lawn to maintain lawn.
- **Caution! Your hose may Be Hazardous to your Health!**
Describes how to prevent backflow of water to keep your family safe from fertilizers and weed killers.
- **It's Up to Us**
Information to become aware of the dangerous household chemicals that can pollute the water
- **Blue Thumb Basics.**
Helps you to become aware about drinking water issues and advocates conservation
- **Blue Thumb Series: 25 Facts About Water**
Discusses some facts about water and how to get involved in drinking water issues.

- **Good Soil For Effective Watering.**
Learn about various types of soil and how to maximize its properties for optimum water use and long-lasting lawns and gardens.
- **Preventing Floods and Leaks in your Home.**
Learn how to look for water leaks
- **Blue Thumb Series: Water Saving Tips for Kids by Kids.**
How children can keep water safe and how they can conserve

Youth Education

- **Splash! Activity Book.**
Colouring book with water related word and number games
- **Water Magic – Water Activities for Students and Teachers (Grades k-3)**
23 hands-on activities that address various objectives
- **Water Fun for you – Colouring Book.**
Drinking water themed activities including colouring pages, cross word puzzles and word games

Compact Discs

- **Aqua Venturer.**
Water Environment Federation
To Order: WEF public education products call 1-800-666-0206
Learn the story of water, it's treatment, it's use throughout history and its importance to life on Earth.
- **The Great Peace: the Gathering of Good Minds.**
Working world Training Centre Inc. www.workingworld.ca
This CD brings a message of universal peace and understanding presented from a First Nations perspective.
- **Introduction to Aquatic Environments.**
Department of Zoology, University of Guelph.
2 Discs covering info about rivers, lakes, chemistry, physical, food webs and plants, benthos, zooplankton, fish, toxics, biodiversity/exotic species
- **Great Lakes Explorer: Biodiversity.**
Department of Zoology, University of Guelph.
Students can explore issues relating to biological diversity in the Great Lakes. They can participate in expeditions to 44 sites to sample fish. Learn how pollution, habitat and geography affect biological diversity.
- **Mission: Acid Rain.**
University of Guelph. Contact: aquatic@uoguelph.ca
Learn how to measure pH, collect animals and take rock samples and see how acid rain affects ecosystems. And see how you can stop acid rain.

- **Ontario's Living Legacy.**
Ontario's Ministry of Natural Resources.
Contact: <http://www.ontarioslivinglegacy.com>, 1-877-727-7701.
Information about Ontario's Provincial Parks
- **Amphibians, Reptiles and Mammals of the Great Lakes:
The Great Lakes Faunal Atlas.**
Department of Zoology, University of Guelph. Contact: aquatic@uoguelph.ca
Learn about amphibians, mammals and reptiles while enjoying an interactive, multimedia experience that includes photographs, sound and animations.

Water and Environment Website Links for Kids & Teachers

- **Freshwater Website – Environment Canada**
<http://www.ec.gc.ca/water/index.htm>
Contains information about the nature of water and management. Site has a good teacher's corner and a large list of publications.
- **Environment Canada's Greenlane**
<http://www.ec.gc.ca/envhome.html>
Information about various environmental issues, such as nature, clean water, clean air and climate change.
- **Great Lakes Information Network**
<http://www.great-lakes.net/>
Information about life in and around the Great Lakes. Teacher resources provide quizzes, mini lessons on Great Lakes topics. U.S. and Canadian partnership.
- **Envirozine- Environment Canada's Online Newsletter**
http://www.ec.gc.ca/envirozine/english/home_e.cfm
Discusses different environmental issues each week.
- **Canadian Water Resources Association**
<http://www.cwra.org>
An organization for individuals and organizations interested in the management of Canada's water resources.
- **Canadian Climate, Environment Canada**
<http://www.cmc.ec.gc.ca/climate/home-e.html>
General information on water as it relates to climate.
- **Adopt-A-Pond**
<http://www.torontozoo.com/adoptapond/index.html>
A wetland conservation program operating out of the Toronto Zoo that allows people and groups to adopt a pond.
- **Otonabee Region Conservation Authority**
<http://www.otonabee.com>
- **Peterborough Utilities Services**
<http://www.puc.org>

- **Waterfront Regeneration Trust**
<http://www.waterfronttrail.org/>
A southern Ontario ENGO that organizes projects designed to enhance the Lake Ontario shoreline on the Canadian side.
- **Ontario Clean Water Agency**
<http://www.ocwa.com>
- **Lifewater Canada**
<http://www.lifewater.ca>
Information on drilling safe drinking water wells and building hand pumps, and training programs.
- **Watershed Science Centre**
<http://www.trentu.ca/wsc/>
Information about watershed research
- **Water - Ministry of the Environment**
<http://www.ene.gov.on.ca/water.htm>
Information on various water-related issues, including wells, conservation, drinking water monitoring, the Great Lakes, and more.
- **Project Wet**
http://www.cwra.org/About_CWRA/Project_Wet/project_wet.html
A Canadian program to promote the appreciation and knowledge of water resources in the classroom.
- **Water Survey of Canada**
<http://www.msc.ec.gc.ca/wsc/>
National water quantity survey. Looks at water-related issues facing various provinces.
- **Water Environmental Association of Ontario**
<http://www.weao.org>
An organization for technical and professional individuals.
- **U.S. Environmental Protection Agency**
<http://www.epa.gov/kids/> or <http://www.epa.gov/teachers/>
Kids' site has online activities. Teachers' site has information such as curriculum ideas and other links.
- **Waterweb**
<http://www.waterweb.org>
A consortium listing water-related and environmental websites in Canada and internationally.
- **University of Wisconsin Extension Programs, Environmental Resources Education Site**
<http://www.uwex.edu/erc/ywc/>
Educating Young People About Water. Has links to curriculum materials and ideas.
- **The Groundwater Foundation (USA)**
<http://www.groundwater.org/kc/kc.html>
Site for kids with activities and info.

- **Water Science for Schools, U.S. Geological Survey**
<http://www.usgs.gov/education.html>
General information for kids and teachers, as well as online activities.
- **American Water Works Association**
<http://www.awwa.org/>
- **Kids for Puget Sound.**
<http://www.pugetsound.org/kids/default.html> Seattle, WA, U.S.A.
- **Great Lakes Information Management**
http://www.on.ec.gc.ca/water/greatlakes/gl_kids-e.html
Resource – Kids resources
- **Canada's Aquatic Environments**
<http://www.aquatic.uoquelfh.ca>
Promotes awareness of aquatic ecosystems
- **Ducks Unlimited Canada**
<http://www.ducks.ca/edu/resource.html>
- **Centre for Global Environmental Education, Hamline University**
<http://www.cgee.hamline.edu/watershed/Resources/index.html>
"Rivers for Life" program makes connection to our immediate activities
- **Canadian Centre for Inland Waters-Water research in the Great Lakes**
<http://www.nwri.ca>
- **Citizen's Environmental Watch- Ontario wide, citizen run monitoring project**
<http://www.utoronto.ca/envstudy/cew/education/waterquality.htm>
- **RiverSides Stewardship Alliance-Acts to facilitate behavioural attitudes**
<http://www.riversides.org>
- **Ontario Streams-Stream restoration information and education**
<http://ontariostreams.on.ca>
- **The Veins of Life Watershed Society**
Environmental Education and Outreach activities
<http://volws.bc.ca/education/Educationfs.html>
- **Conservation Ontario- Network of 38 conservation Authorities**
www.conservation-ontario.on.ca
- **Ontario Ministry of Natural Resources-Water Management and planning**
www.mnr.gov.on.ca/mnr/water/
- **Water Environment Federation-Dedicated to water preservation and enhancement**
<http://www.wef.org/Education/Connection/index.jhtml>

- **Water Use it wisely**
www.wateruseitwisely.com/game
Incorporates water conservation tips into a memory game
- **Take Action for Water**
www.wrc.govt.nz/TA/water/kids/games.cfm
Environmental Education Program
- **BellLive-**
www.bellmuseum.org/distancelearning/watershed/watershed2.html
Electronic Learning Adventures help kids learn about the environment