



# Appendices

A - Curriculum Organizers and Learning Outcomes

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B - Glossary

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C - Video Script

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D - Supplementary Resources, Workshops  
and Field Trips



Appendix D:

# Additional Resources

The following resources may provide additional support for teaching the subject of water and drinking water conservation and protection. For the most current list, see [www.crd.bc.ca/teacher](http://www.crd.bc.ca/teacher).

It is important to note that the print, video, and multimedia resources cited here may not have undergone the Ministry of Education resource evaluation process. Schools should consult their district resource evaluation policies, as well as the ministry guidelines contained in the Catalogue of Learning Resources. [www.bced.gov.bc.ca/irp\\_resources/catalogue\\_of\\_learning\\_resources.htm](http://www.bced.gov.bc.ca/irp_resources/catalogue_of_learning_resources.htm)

Teacher Lesson Plans and Activities										
Resource	TOPIC				FORMAT					
	Water Cycle & Weather	Forms of Water	Water & Living Things	Other	Hardcopy	Online	Audio	Video	Printable	Fee
<b>Smart Exchange</b>	•	•	•	•		•				
<b>BC Green Games</b>	•	•	•	•	•	•	•		•	
<b>Outdoor Activity Study Kits</b>	•					•			•	
<b>Water Education Posters</b>	•					•			•	
<b>Primarily Earth</b>	•				•	•	•		•	•
<b>Earth Explorations</b>	•				•	•	•		•	•
<b>Salish Sea: A Handbook for Educators</b>	•				•					•
<b>Backyard Biodiversity and Beyond: A Handbook for Students and Teachers.</b>			•		•					•
<b>Project WET</b>	•	•	•		•					•
<b>A Teacher's Guide to "A Drop Around the World."</b>	•	•		•						•
<b>Salmonoids in the Classroom</b>			•			•			•	•
<b>Storm Drain Marking Program</b>			•		•			•		
<b>Stream to Sea</b>	•	•	•		•	•			•	
<b>Classroom Events Through Poetry</b>		•			•					•
<b>A Drop of Water: A book of science and wonder</b>	•	•			•					•
<b>The Water Source Book and Thirstin's Water Cycle Activities</b>	•	•				•			•	
<b>Water Cycle</b>	•	•	•			•		•		
<b>Water Action Projects</b>	•	•	•	•		•			•	
<b>Water Footprint Calculator</b>			•			•				

Resource: **Smart Exchange**

By: Smart

Grades: K-12

Description: Find lesson plans for your SMART Board and connect with teachers. Customize existing lesson plans to meet your instructional needs.

<http://exchange.smarttech.com>

Resource: **BC Green Games**

By: Ministry of Education

Description: BC Green Games is a province-wide competition for students, designed to motivate environmental action, enable sharing, and reward and celebrate the green efforts of schools in B.C. View the prize-winning projects and register your school to participate.

[www.bced.gov.bc.ca/greenschools/](http://www.bced.gov.bc.ca/greenschools/)

Resource: **Outdoor Activity Study Kits**

By: Environmental Educators Provincial Specialist Association

Description: Ideas for kits to prepare students for outdoor learning. A basic kit will get your class ready for a quick classroom exit at any opportune moment. Other kits include Weather studies and Gardening.

[www.bctf.ca/eepsa/resources.htm](http://www.bctf.ca/eepsa/resources.htm)

Resource: **Water Education Posters**

By: USGS

Description: General information related to water including water use and groundwater. Note: some details included in these posters may not reflect infrastructure and processes in the Capital Region.

To order/download:

<http://water.usgs.gov/outreach/OutReach.html>

**Resource: Primarily Earth**

By: AIMS Education Foundation (2008)

Grade: Grades K-3

Description: Students explore many different aspects of weather, including temperature, clouds, precipitation and the water cycle. Observing and recording are emphasized throughout.

To Order:

AIMS Education Foundation  
1595 S Chestnut Ave, Fresno, CA  
93702-4706

Toll Free: 1.888.733.2467

Downloadable PDF

**[http://store.aimsedu.org/aims\\_store/books/digital-books/primarily-weather-pdf-version.html](http://store.aimsedu.org/aims_store/books/digital-books/primarily-weather-pdf-version.html)**

Hardcopy and CD

**[http://store.aimsedu.org/aims\\_store/books/primarily-weather-cd.html](http://store.aimsedu.org/aims_store/books/primarily-weather-cd.html)**

**Resource: Earth Explorations**

By: AIMS Education Foundation (2012)

Grade: Grades 2-3

Description: Students investigate Earth's resources and some conservation methods. The water cycle, daily patterns, and fossils are also addressed.

To Order:

AIMS Education Foundation  
1595 S Chestnut Ave, Fresno, CA  
93702-4706

Toll Free: 1.888.733.2467

Downloadable PDF

**[http://store.aimsedu.org/aims\\_store/books/digital-books/earth-explorations-pdf-version.html](http://store.aimsedu.org/aims_store/books/digital-books/earth-explorations-pdf-version.html)**

Hardcopy and CD

**[http://store.aimsedu.org/aims\\_store/books/earth-explorations.html](http://store.aimsedu.org/aims_store/books/earth-explorations.html)**

Resource: **Salish Sea: A Handbook for Educators**

By: Parks Canada; Arntzen, H., Mcnaughton, D., Penn, B. & Snively, G.

Grade: Grades K-7

Description: The handbook is full of useful ideas, lessons and advice for educating students of many levels about marine life and the heritage of the sea along the Pacific Coast. These tools will help students to better understand marine ecosystems and encourage them to be active agents of change in protecting our oceans.

To Order:

Handbook  
Parks Canada National Office  
25-7-N Eddy Street, Gatineau, Quebec

Toll Free: 1.888.773.8888

Email: [straitofgeorgianmca@pc.gc.ca](mailto:straitofgeorgianmca@pc.gc.ca)

**[www.pc.gc.ca/apprendre-learn/prof/sub/salish/salish2\\_e.asp](http://www.pc.gc.ca/apprendre-learn/prof/sub/salish/salish2_e.asp)**

CD

Canadian Artist Response Team Inc.  
PO Box 998, Crofton, B.C., V0R 1R0  
250.324.3402  
[artistresponseteam@shaw.ca](mailto:artistresponseteam@shaw.ca)

Resource: **Backyard Biodiversity and Beyond: A Handbook for Students and Teachers.**

By: Wild BC; Binder, D. Guy, S. & Penn, B. (1995)

Grade: Grades K-7

Description: Five modules and a community action tool kit cover topics such as endangered species, global thinking/local action, wildlife, ecology, and exploring biodiversity through poetry, art, family, and First Nations. Contains a section on water in the ecosystem. Available in French.

To Order:

#107-19 Dallas Road, Victoria, BC V8V 5A6  
250.940.9786

Toll Free: 1.800.387.9853 ext. 4

**<http://wildbc.org/index.php/programs/backyard-biodiversity-beyond/>**

**Resource: Project WET**

By: Wild BC

Grade: K-12

Description: A water science and conservation education program. Incorporates a variety of formats such as large and small group learning, laboratory investigations, discussion of local and global topics, and involvement in community service projects.

To Order:

#107-19 Dallas Road, Victoria, BC V8V 5A6  
250.940.9786

Toll Free: 1.800.387.9853 ext. 4

**<http://publications.wildbc.org/products/project-wet>**

NOTE: Available only through a teacher training workshop.

**Resource: A Teacher's Guide to "A Drop Around the World."**

By: Malnor, Bruce and Carol. (1998) Dawn Publications

Grade: 3-6

Description: A series of lesson plans to be used in conjunction with the children's book "A Drop Around the World". Focus is on both scientific concepts and sustainability of water. The book contains three components: Water Magic, World Habitats, and Skill for Living.

To Order:

Dawn Publications  
12402 Bitney Springs Rd.  
Nevada City, CA 95959  
1.530.274.7775  
orders@dawnpub.com

[www.dawnpub.com/our-books/teachers-guide-a-drop-around-the-world/](http://www.dawnpub.com/our-books/teachers-guide-a-drop-around-the-world/)

**Resource: Salmonoids in the Classroom**

By: Department of Fisheries and Oceans Canada

Grade: Primary

Description: This learning resource, which focuses on salmon, biology, and stewardship, encourages an ecological approach, integrating science with social studies. Part of the Stream to Sea Program.

To Order:

Download

**[www.pac.dfo-mpo.gc.ca/education/primary-primaire/index-eng.htm](http://www.pac.dfo-mpo.gc.ca/education/primary-primaire/index-eng.htm)**

Resource: **Storm Drain Marking Program**

By: Department of Fisheries and Oceans Canada

Grade: Primary

Description: Carried out in urban areas under sponsorship of Fisheries and Oceans Canada this program gives children an active role in protecting their environment by marking storm drains with bright yellow fish and circulating information to advise residents that these drains empty into local creeks. A video (for children) and manual (for teachers or leaders) are available.

To Order:

DFO Representative- Lower Vancouver Island and Southern Gulf Islands  
5245 Trans Canada Highway  
Duncan V0R 2C0  
1.250.746.5137

**[www.pac.dfo-mpo.gc.ca/sep-pmvs/index-eng.htm](http://www.pac.dfo-mpo.gc.ca/sep-pmvs/index-eng.htm)**

Resource: **Stream to Sea**

By: Department of Oceans and Fisheries (DFO) Canada

Grade: Primary

Description: The goal of the Stream to Sea education program is to help students become aquatic stewards. Key concepts include aquatic ecosystems, sustainability and stewardship. Program materials include lesson plans, posters, brochures and services.

**[www.pac.dfo-mpo.gc.ca/education/primary-primaire/index-eng.htm](http://www.pac.dfo-mpo.gc.ca/education/primary-primaire/index-eng.htm)**

Resource: **Classroom Events Through Poetry**

By: Swartz, Larry. Stenhouse Pub (1993)

Grade: Primary

Description: Contains several suggestions for teaching words that express the sound of water: lap, gurgle, splash, rain, drip, etc. Includes ideas for integration with English language arts vocabulary development; good supplement for ESL students.

To Order: ISBN 1-55138-008-0

Resource: **A Drop of Water: A book of science and wonder**

By: Wick, Walter (1997) Scholastic Press, New York.

Grade: 2-4

Description: The most spectacular photographs ever created on the subject of water appear in this unique science book by Walter Wick. The camera stops the action and magnifies it so that all the amazing states of water can be observed.

To Order: ISBN 0-590-22197-3



**Resource: The Water Source Book and Thirstin's Water Cycle Activities**

By: US Environmental Protection Agency (EPA)

Grade: K-3

Description: Water lesson plans, games and activities.

To Order:

Download and Print

[http://water.epa.gov/learn/kids/drinkingwater/teachers\\_k-3.cfm](http://water.epa.gov/learn/kids/drinkingwater/teachers_k-3.cfm)

**Resource: Water Cycle**

By: Bill Nye the Science Guy

Grade: -

Description: Explanation of the water cycle, forms and properties of water using demonstrations and experiments. Complexity varies. Suggest selecting sections for viewing. 23 minutes

To view:

[www.youtube.com/watch?v=AgOUgnl5tNA](http://www.youtube.com/watch?v=AgOUgnl5tNA)

**Resource: Water Action Projects**

By: Resources for Rethinking

Description: Classroom resources reviewed by teacher for teachers. Project FLOW (For the Love of Water) engages elementary and secondary students in sustainability education through hands-on projects that model responsible and active citizenship.

<http://r4r.ca/en/project-flow>

**Resource: Water Footprint Calculator**

By: National Geographic

Description: Easy to use, however requires a zip code- suggest a Seattle zip code such as 98101. Some questions will not apply to students however can apply question to the family e.g. driving.

<http://environment.nationalgeographic.com/environment/freshwater/water-footprint-calculator/>