

A ONE



LEARNING

This section contains a selection of resource materials and classroom support activities of interest to teachers in British Columbia.

Wild BC

Victoria, BC
Toll-Free Phone: 1-800-387-9853
Fax: (250) 952-6684
E-Mail: wild@gems5.gov.bc.ca

* **PROJECT CARIBOU: AN EDUCATOR'S GUIDE TO THE WILD CARIBOU OF NORTH AMERICA.** Coordinated by Remy Rodden, Conservation Education Coordinator, Yukon Department of Environment. 150 pages. Caribou are everywhere in Canada...just have a look at the 25 cent piece in your pocket! Project Caribou is a learning resource focusing on the caribou of North America. This guide uses caribou to teach ecosystem management and conservation biology approaches. It was cooperatively developed by agencies across the North and elsewhere. Project Caribou is a concise publication about caribou including general information, K-12 activities on caribou, and specific case studies on several North American herds. The entire publication and supplementary activities (pdf format) may be downloaded free from the web site at www.projectcaribou.net. If you prefer a printed hard copy, contact Wild BC. Grades K-12. Cost: \$22.



* **CONNECTING STUDENTS WITH THEIR WATERSHEDS (2002).** This resource guide is for individuals and stewardship-group members who wish to increase community involvement in stewardship activities by working with school educators and students. This workbook provides information on how to involve educators and school-aged children in your project and to provide them with connections to their community that will enrich their learning experiences. All grades. Cost: \$22.

BC Dairy Foundation

Burnaby, BC
Phone: (604) 294-3775
Fax: (604) 294-8199
<http://www.spacestation5532.ca>

* **SPACESTATION 5-5-3-2: INTERGALACTIC NUTRITION TRAINING CENTRE.** The BC Dairy Foundation announces the launch of the latest in its nutrition education programs: SPACESTATION 5-5-3-2, a CD-ROM designed for grade 6-8 students. This intergalactic adventure brings important messages about healthy eating to media-savvy students in a way that is engaging and interactive. Based on Canada's Food Guide To Healthy Eating, students will learn how to assess their diets and create personal plans for improvement. SPACESTATION 5-5-3-2 meets outcomes in the Personal Planning curriculum. It has been in development and testing for over two years. SPACESTATION 5-5-3-2 is available through teacher workshops. The Teacher kit includes a CD-ROM, Teacher Guide (with student masters for duplication), a teaching poster, and a class set of colourful student follow-up materials. Grades 6-8. Cost: \$45 (You can sample the program at the website, or call to request a free Teacher Sampler CD-ROM).

**Fox Trax Environmental Education**

Contact: Lisa Fox
Phone: (604) 588-7740
Fax: (604) 588-7721
E-mail: veloxvulpes@uniserve.com

* **THE BRITISH COLUMBIA GROUNDWATER ASSOCIATION GROUNDWATER PROTECTION TEACHER'S KIT.** Almost every community depends on groundwater as does our ecosystems, plants and animals living with us. This BC resource is designed for middle school teachers and was reviewed and piloted by teachers from across the province. To obtain your copy of the Video and Teacher Package activities you may attend a workshop or have one delivered by mail. An advisory committee has covered postage for 50 packages (preference will be given to those outside the Lower Mainland). Grades 7-9. Free to BC teachers.

**Crabtree Publishing Co.**

St. Catharine's, ON
Toll-Free Phone: 1-800-387-7650
Toll-Free Fax: 1-800-355-7166
E-mail: custserv@crabtreebooks.com
<http://www.crabtreebooks.com/canada/teachers/default.lasso>

* **COSMIC LIGHT SHOWS.** Hardcover or paperback with full-colour illustrations. Authors: Bobbie Kalman and April Fast. Every once in a while the universe dazzles us with one of its various "light shows." Colour photographs of these cosmic fireworks and the easy-to-read text of this book help explain to children the phenomena of meteor showers, comets, northern and southern lights and eclipses. Grades 1-8. Cost: Hardcover \$19.96, Paperback \$7.16.

* **FUN WITH DOLPHINS.** Paperback or hardcover with full-colour illustrations. Author: Bobbie Kalman. Children love dolphins for their playful nature and many dream of seeing them up close. This book will provide an "up-close" experience with dolphins. Students will learn about the games these social animals play with each other, their seeming sense of humour, and their acrobatic leaps and spins. The do's and don'ts when meeting a dolphin both in captivity and in the wild are explained. A trip to dolphin camp for children and a snorkelling adventure are also featured along with a multitude of dolphin facts. Grades 2-8. Cost: Hardcover \$19.96, Paperback \$8.06.

**BC Wildlife Federation, Wetland Education Program**

Nelson, BC
Contact: Lisa Mose, Assistant Coordinator
Phone:(250) 354-1088
Fax:(250) 354-1033
E-mail: wetlands@netidea.com

* **2003 WETLANDS INSTITUTE FOR EDUCATORS: WORKING AND PLAYING IN WETLANDS.** July 6-12, 2003, 100-Mile House, BC. Teachers will work on developing class and school-based programs focussed on hands-on wetland investigation and conservation. This Simon Fraser



University (SFU) course is primarily field-based since educators work in teams on case study projects in the host community. An educational project plan must be compiled with the assistance of on-site SFU teaching staff. Up to nine course credits available through SFU if educational plan is implemented and evaluated. The course fee of \$500 includes meals and accommodation.

BC Agriculture in the Classroom

Abbotsford, BC
Phone: (604) 556-3088
Fax: (604) 556-3030
<http://www.aic.ca/bc>

* **GROW BC: A GUIDE TO BC'S AGRICULTURE RESOURCES.** This comprehensive guide takes a close look at BC's agriculture resources. Over 200 plant, animal and fish commodities are highlighted. New sections on food safety and quality, conservation, technology and careers make this resource useful to both teachers and students alike. Included is the guide, a map/poster of agriculture, fish and food in BC, as well as the added bonus of All About Food. Updated with 2001 Census Canada Figures. Grades: K-12. Cost: \$18.95 (Free: one copy per school to teacher librarians).

**Port Moody Ecological Society**

Port Moody, BC
Contact: Nancy Aichberger
Phone: (604) 524-5967
E-mail: naichberger@shaw.ca

* **ESTUARY EXPLORATION (Grade 1-3).** Introduces students to fresh water habitat and to an estuary. An estuary is a place where fresh water meets salt water, where plants and animals must live in a habitat that is both wet and dry, warm and cold and has both fresh water and salt water. Students investigate types of plants in the riparian zone. They feed salmon fry at Noons Creek Hatchery and discuss predators and habitat. Students then go to Noons Creek estuary. When tides allow, students go out onto the mud flats to investigate what lives there. The students are divided into two groups, each with a trained naturalist. 1 1/2 hours in length. Cost: \$40.



* **SALMON CYCLE (Grades 4-5).** Noons Creek Hatchery is a teaching hatchery that raises and releases both Coho and Chum salmon. Students will learn about the salmon life cycle in the wild and how fish are raised in the hatchery. There is a hatchery tour and students will feed the Coho and discuss predators. Basic water quality will be introduced and students will take temperature and depth readings in the creek. Aquatic insects will be introduced and collected. Microscopes will be available for insect viewing. The students will be divided into two groups, each with a trained naturalist. 2 hours in length. Cost: \$60.00.

* **STREAM SCIENCE (Grade 6-7+).** Students will be introduced to basic water quality parameters such as temperature, pH, dissolved oxygen and dissolved and suspended solids. This is a hands-on program and students will be collecting their own data. They will also learn from this how to determine if a watershed is

healthy or not. Students will learn that aquatic insects are biological indicators of the health of a stream or pond. Insects will be collected and identified. Students will have the use of microscopes. Students will be divided into two groups, each with an experienced naturalist. 2 1/2 hours in length. Cost: \$70.00.

* **FRY FISH REACHING YOUTH.** This program was created in 2001, so that stream stewardship could be introduced into schools. Schools that have a nearby stream or river are targeted. This program is about introducing students to stream restoration practices, riparian planting, water quality monitoring, plant and animal surveys. The project focuses on correction of problems within the watershed and prevention of future problems. Data collected will be forwarded to local governments and the Pacific Streamkeepers Federation. This program can be applied to students from grade 5 onward, however grades 9 to 12 are the target group.

Environment Canada

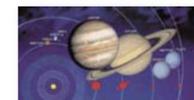
Hull, QC
Phone: (819) 997-2800 or 1-800-668-6767
Fax: (819) 953-2225
E-mail: enviroinfo@ec.gc.ca

* **THINK CLIMATE: CHANGE.** This fact sheet describes the global warming trend experienced by the earth over the past 1000 years, the dangers of warmer temperatures and the ways in which people are contributing to this trend. It describes federal government initiatives to combat global warming, as well as highlighting climate change success stories from across Canada. The fact sheet also contains tips to help Canadians reduce greenhouse gas emissions. Grades: K-12. Cost: Free.

**BCTF Lesson Aids Service**

Vancouver, BC
Phone: (604) 871-2181
Toll-Free (BC only): 1-800-663-9163
Fax: (604) 871-2295
<http://www.bctf.bc.ca>

* **SURFING THE SOLAR SYSTEM.** Produced by Engaging Science, a joint venture of the H.R. Macmillan Space Centre, Science World BC and the Vancouver Aquarium Marine Science Centre, 34 p. (c)2001. This workshop/activity unit is a collection of hands-on curriculum-based activities with illustrations, diagrams, photos and instructions to help teachers get their students engaged in science. From giant Jupiter to mid-sized Earth, and out to tiny Pluto, students will compare planetary sizes and distances, using materials like peppercorns, chick peas, apples, and adding machine tape. To end with a bang, students construct rockets which "fire" off the ground using only antacid tablets and water in the fuel chambers. Reference #LA 9535. Grades K-7. Cost: \$11.00.



* **ANATOMY OF A RAINFOREST.** Produced by the Vancouver Aquarium Marine Science Centre, 80 p. (c)1998. This illustrated curriculum-based educator's guide and resource book is closely linked to the Vancouver Aquarium's school program. This resource guide outlines the program's



RESOURCES TEACHERS' SHOPPING LIST

Companies, government agencies and other associations are welcome to submit items for inclusion in this section.

learning objectives. The guide includes five sections: introduction to the Vancouver Aquarium Marine Science Centre school programs; teacher's information; activities for your class; glossary and resources and curriculum links. The guide includes pre-visit and post-visit to the aquarium, activities, and resources about the rainforest and its inhabitants. Reference #LA 4019. Grades 8-10. Cost: \$18.50.

* LET'S EXPLORE CANADA.

Author: Trudy Mauti and Deborah Sherman, 48 p., Rev. (c)2002 This book is written for primary and intermediate teachers who want to teach their students about Canada. This new edition of "Let's Explore Canada" has just been revised and updated. The numerous reproducible activities introduce young students to the land and resources of the ten provinces and three territories. Topics include lobster fishing in the Maritimes, ancient rainforests in British Columbia and northern communities in Nunavut. The activities have been carefully designed to improve reading comprehension skills such as finding the main idea and specific to social studies skills such as interpreting a map legend. This resource also contains a large, simplified, easy-to-read, full-colour map of Canada. Reference #LA 9309. Grades 3-5. Cost: \$14.95.



* **NOT SO NATURAL DISASTERS.** Produced by Co-Development Canada, 94 p., (c)2002. This global education resource book is a teaching unit on the links between natural disasters and climate change, environmental degradation and global inequality. The resource is aimed at secondary teachers and is designed to help students explore the human factors in natural

disasters, including their causes, impacts and solutions, and to empower students to identify solutions and take action. The text includes student handouts for photocopying, as well as teacher information and background materials. This document is also available on-line. Reference #LA 2047. Grades 8-12. Cost: \$20.95.

Natural Resources Canada

Ottawa, ON
Phone: (613) 947-6580
Fax: (613) 952-7501
E-Mail: info-mms@nrcan.gc.ca

* FOCUS 2006: A STRATEGIC VISION FOR 2001-2006.

28-page booklet. This report sets out the vision, mission and mandate of the minerals and metals sector of Natural Resources Canada. It describes six trends that will shape the future of the sector, and lays out a strategic plan for the five-year period beginning in 2001. It notes four strategic directions: championing innovation; ensuring a strong international voice for Canada; contributing to the health, safety and security of Canadian communities; and sustaining a vibrant and responsible Canadian industry. Grades 7-12. Cost: Free.



Tundra Books Inc.

Toronto, ON
Toll-Free Phone: 1-800-788-1074
Fax: (416) 598-0247
<http://www.tundrabooks.com>

* HOUSES OF WOOD: THE NORTHWEST COAST.

This is one of a series of six soft-cover



teaching books. The Native peoples of the Northwest Coast were blessed with a mild climate, waters teeming with fish, and abundant vegetation, including giant cedars, among the world's tallest and most versatile of trees. With only small handmade tools, these peoples managed to fell the massive trees, transport them back to their villages, build spectacular wooden dwellings, and embellish them with art admired the world over. A cross-curricular teacher's kit in a three-ring binder is also available and includes a list of general activities that are applicable to all the books in the series, and specific activities for each book. It includes a reference list complete with bibliography, resource materials, useful addresses, and masters to photocopy for classroom use. Each book in the series presents information about a different type of Native dwelling. Grades: 3-6. Cost: Book: \$8.99, Teacher's Kit \$13.95.

Federation of Ontario Naturalists

Don Mills, ON
Phone: (416) 444-8419
Fax: (416) 444-9866
E-mail: info@ontarionature.org
<http://www.ontarionature.org>

* HANDS-ON NATURE: INTRODUCING POSTERS.

Common native species are illustrated in full colour 19" x 24" classroom posters. Choose from the themes of trees, birds, insects, reptiles, flowers or mammals. All Grades. Cost: \$5.00 each.

FORED BC

For Education about our environment and its natural resources.

Provincial Office

#326 - 1275 West 6th Avenue, V6H 1A6

Vancouver, British Columbia

Phone: (604) 737-8555

Fax: (604) 737-8598

Teachers' Fax: (604) 737-8533

Teachers' Toll-Free: 1-888-28-TREES

Website: www.landscapesmag.com

Cheryl Ziola, President

E-mail: info@foredbc.org

Available from FOREDBC

Website for teachers and students:
www.landscapesmag.com

- Teacher training workshops for a variety of grade levels with a focus on resources such as trees, wildlife, water, minerals, soil, as well as related careers and aboriginal forest practices.
- Information and activity packages in response to teacher topic requests.
- Idea exchange sessions for teachers and natural resource sector professionals.
- Training workshops for education volunteers from industry and government.
- Advice and services for classroom presenters on a consulting basis.
- Education consulting.
- Review of curriculum packages related to environmental education topics.
- Participation in and provision of speakers for Provincial Specialty Association conferences.

HOME PAGES

• EARTHTRUST - WILDLIFE CONSERVATION WORLDWIDE

<http://www.earthtrust.org/>

At this website you'll find information about some innovative and cost-effective programs for protecting some of the world's threatened and endangered species, including whales, dolphins, tigers, rhinos, and many others.



• SUSTAINING THE ENVIRONMENT AND RESOURCES FOR CANADIANS

<http://www.environmentandresources.ca/>

This new website is aimed at informing Canadians on the importance of environmental health and taking care of our natural resources. It provides a comprehensive background to the major environment issues in Canada such as climate change, air pollution, water quality and natural resources. Read discussions on why these issues are important, how they relate to us and what we can do about them. This is an informative resource for teachers who want to convey the importance of the environment to students by making it relevant and addressing key Canadian environmental issues.



• GLOBAL HEROES ONLINE

<http://www.sounddevelopment.com/globalheroes/english.asp>

Developed for school and family use, Global Heroes is the place to meet inspiring Canadians who are truly making a difference around the world. This site has been designed to meet the needs of teachers looking for reliable on-line information that their students can use to explore global issues from a Canadian perspective. Included are many in-depth profiles of ordinary Canadians who are making a difference in the world.

• SALMON: SPIRIT OF THE LAND AND SEA

<http://www.oneworldjourneys.com/expeditions/salmon/>

This site offers teachers and students an opportunity to take a journey of discovery to learn about the circle of life supported by the Pacific Northwest salmon. An in-depth background on salmon ecology, as well as daily dispatches from the expedition team give this learning opportunity a "you are there" experience. Explore the waters and land of British Columbia's Great Bear rainforest to document and understand the importance of the wild salmon to the Pacific Northwest ecosystem.



• EDDY THE ECODOG UNLEASHED

<http://www.ecodog.com/>

KidsWebTv (Winnipeg) offers ecology-focused content for students including its Flash-animated web cartoon series. The site includes animated cartoons, jokes, interactive adventures, "Paws for the Planet" an electronic journal where youth can add their own stories, and an interactive arcade.



• CANADA'S AQUATIC ENVIRONMENTS

<http://www.aquatic.uoguelph.ca/>

This is an educational and interactive website to promote awareness of Canada's aquatic resources. Discover Canada's national parks, lakes, rivers, and of course, oceans.



• TOMATOSPHERE

<http://www.tomatosphere.org/index.html>

Learn about survival in space and on Mars by participating in Tomatosphere, a unique educational experience for Canadian students and teachers (Grades 3-6 and 8-10). In 2003, students will have the opportunity to grow tomato plants from Heinz tomato seeds that have been exposed to environments much like those found on Mars. Some of these seeds will have gone through the Mars environment simulator at the University of Guelph, while others will have been treated in what scientists expect a Mars greenhouse environment to be like.



• PROUD CANADIAN KIDS

<http://proudcanadiankids.ca/index.htm>

Have you been searching for a site that's just about Canada - its wildlife, its history, its holidays...? It's all here...and it's all Canadian!

• CAREER PLANNER 2002/03

<http://www.bced.gov.bc.ca/careers/careerplanner.pdf>

This new online career planner gives students and parents a comprehensive one-stop overview of the wide range of options for post-secondary education, training and careers in BC.



• CNN STUDENT NEWS TEACHER RESOURCES

<http://fji.cnn.com/fji/teachers/>

This educational website provides lessons and activities that integrate current events into the classroom. Activities are correlated to curriculum and divided into subject areas such as environment, science and social studies.

• GREENCOM ENVIROSPACES

<http://www.greencom.org/index.asp>

Envirospaces is an online community that allows environmental educators and communicators to facilitate the gathering, sharing and publishing of knowledge. The core of Envirospaces is the Projects, individual workspaces that community members create to share and provide teaching and training opportunities (guided practice, long-distance learning, mentoring).