

A ONE



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

International Paper

Stamford, CT
Phone: 1-203-541-8000
E-Mail: info@iplifeoftheforest.com

* LIFE OF THE FOREST.

International Paper's complete Life of the Forest educational series includes ten full-colour full-size posters showing various stages in the life of a forest, a matching set of ten teaching guides with in-depth information pertaining to each poster and its subject matter, and a 16-page booklet featuring over-sized, full-colour illustrations depicting the many cycles and stages of our forests. Each poster represents an essential forest element including maintenance, preservation, history and how forests are utilized to provide materials for the products we use in our lives. Grades 3-9. FREE.



Canadian Centre for Energy Education

Calgary, AB
Toll-Free Phone: 1-877-606-4636
Fax: (403) 237-6286
E-mail: info@centreforenergy.com

* CANADA - FUELED BY

RESOURCES. Produced by the Petroleum Communication Foundation. 18-page black and white resource; published in June 2001; revised July 2002. This learning resource introduces students to Canada's petroleum resources. The activities refer to conventional or onshore petroleum, as well as oil sands, offshore and frontier sources of petroleum, and build on a single map of Canada. Students require a general knowledge of Canada's political divisions (provinces, territories and major cities) and physical features (mountain ranges, water bodies, eco-zones, etc.) to complete the activities. Curriculum links (Alberta), learning outcomes, helpful hints and tips are included throughout the resource for teacher use. Grades 4-6. Cost: \$2.00 each (plus applicable taxes, shipping and handling). Special rates are available for members.

* EARTH REALLY ROCKS.

Produced by the Petroleum Communication Foundation. 22-page black and white resource; published in May 2001; revised July 2002. In this resource, students learn about the link between rocks and petroleum. The activities emphasize sedimentary rocks and their properties. Concepts such as porosity and processes such as underground oil and gas formation are introduced in activities featuring hands-on investigations, student participation and concrete examples. Curriculum links (Alberta), learning outcomes, helpful hints and tips are included throughout the resource for teacher use. Grades 3-4. Cost: \$2.00 each (plus applicable taxes, shipping and handling). Special rates are available for members.



Rainforest Reptile Refuge Society

Surrey, BC
Phone: (604) 538-1711
Fax: (604) 536-1796
http:// www.rainforestsearch.com.

* RAINFOREST REPTILE REFUGE SOCIETY.

The Rainforest Reptile Refuge Society is a non-profit, "no-kill" shelter dedicated to the care and conservation of native and exotic species of reptiles and amphibians, and serves as a permanent home to many unwanted exotic pets, while encouraging an awareness of these animals for the benefit of the global community. As well as providing shelter for these animals, the Society carries out animal rescues, promotes awareness and maintains strong community links through various volunteer and outreach programs. The Refuge has become an important source of technical information regarding exotic animals for animal welfare officers, local RCMP and regional SPCA's. Downloadable lesson plans are provided on-line. To book a class field trip, call Christine @ 604-538-1711. All grades.



Bullfrog Films

Oley, PA
Toll-Free Phone: 1-800-543-3764
Fax: (610) 370-1978
E-Mail: video@bullfrogfilms.com

* ARRIBADA! THE OLIVE RIDLEY ARRIVAL.

17 minutes VHS video. In this award-winning film, the comical Kratt brothers, armed with video camera, surfboards, and supplies for three weeks take the audience on a journey through the tropical dry forest of Costa Rica to the primal nesting ground of the threatened Olive Ridley sea turtles. Encountered are the animals of the forest and the arrival of 40,000 sea turtles is documented. The turtles come onto the beach to nest, and are followed through the nesting process and ultimate return to the ocean, where the Kratts go swimming with the turtles. Part of the Earth Creatures series, the forerunner to PBS's Kratts' Creatures and Zoboomafoo. A teacher's study guide is available. Grades K-7. Cost: \$49 US.



J & L MacPherson Educational Services Ltd.

Kelowna, BC
Phone: 250-769-4321
Fax: 250-769-3045
E-Mail: envirocan@fichtner.com
http: www.fichtner.com/envirocan

* ENVIRO CANADA SERIES 1.

This resource contains teacher pages, seven full-colour posters, and student worksheets that follow a common structure for each unit. A simple coding system guides the teacher through the materials and their correlations. The materials can be used independently, in small groups, and for whole-class instruction. A loose-leaf binder allows for the sequencing and organizing of the units and worksheets. This material presents factual information about the ecosystems found in the various

regions of Canada. The introductory unit has students start with personal experiences and then make generalizations relevant to the content. Subsequent units examine the interrelationships among humans, animals, and the environment within each ecosystem. Each unit has a common structure: teacher input, question/answer sheets, and a wide range of possible research topics, all designed to introduce and reinforce specific content. Grades 7-9. Cost: \$50.00.

Flying Rhinoceros

Portland, OR
Toll-Free Phone: 1-800-537-4466 x8764
E-Mail: mhansen@flyingrhino.com
http:// www.flyingrhino.com

* INSECTS - THE MUNCHY CRUNCHY BUG BOOK

(with an introduction by Sally Love of the Smithsonian Institution). by Ray Nelson, Ben Adams, Julie Mohr, Douglas Kelly (1997). This comprehensive 48 page hard-cover book covers topics including beetles, cockroaches, dragonflies and various other insects. The story follows a student named Fred Smertz who loves to eat insects, while letting children know that Fred is unusual and they "shouldn't try this (eating insects) at home." The book uses a story line in a poem to lead the reader through the tutorial on insect body structure. It is fully illustrated and explains the basic concepts of insect structure, such as body parts, external and internal anatomy, metamorphosis, the differences between some insect orders, and even some insect behavior. A teaching kit is also available to accompany the book. Grades: 3-6. Cost: \$19.95 US.



Environment Canada, Meteorological Service of Canada

Eldon Oja
Toronto, ON
E-Mail: Eldon.Oja@ec.gc.ca
http:// www.msc-smc.ec.gc.ca/education/index_e.cfm

* PROJECT ATMOSPHERE

CANADA. Project Atmosphere Canada provides a set of written modules that can be used for instruction of weather-related topics in secondary school science and geography curricula. It includes extensive background information, presented as reference notes for teachers for supporting their instruction of weather concepts. Weather safety is highlighted with a discussion on weather watches and weather warnings, and the implications of each. In addition to narrative for the teacher, the modules contain many student-centered activities that develop and reinforce students' knowledge and skills. The activities raise students' awareness of the technology associated with meteorology. Links to Internet sites are provided for students to access up-to-date meteorological data. A bibliography provides an extensive listing of related references. Grades 9-12. Hard-copy contains 267 b/w loose pages in a binder (price yet to be determined) or web based - downloadable PDF files - 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

* ONCE UPON A SEASHORE.

Author: Gloria Snively, 304 p., (c)2001. This learning resource uses the seashore as a source of inspiration for integrating the subject areas of art, creative writing, drama, music, science, mathematics and social studies. Topics include basic ecology concepts: organism, tidal cycle, habitat, predator-prey, food chains, life cycles, loss of habitat, and conservation. Chapters include: The Rocky Shore, The Sandy Beach, Plankton Soup, The Drama of the Tides, Awareness and Appreciation, and People and the Sea. The book can be used by inland teachers who are not able to take their students to the seashore. Lessons include key concepts, learning outcomes, background information, teaching procedures, and evaluative techniques. Teachers are given suggestions for planning and organizing field trips, as well as learning cycles for a day at the seashore. All of the activities have been field tested by BC teachers. Also included are an illustrated glossary, 20 activity sheets, and 42 black-and-white line drawings that can be made into transparencies. The Ocean Animal Clue Cards (S66) have been designed for use with this resource guide. Reference #LA S65. Grades K-6. Cost: \$40.00.



* SALISH SEA: A HANDBOOK FOR EDUCATORS.

Author: Fisheries and Oceans Canada and Parks Canada, 108 p., (c)2001. Conservation messages are brought to the next generation of decision-makers—our children—through the medium of music. This handbook includes a copy of the Salish Sea CD, featuring singer-songwriter Holly Arntzen, accompanied by choirs from the Saanich School District on southern Vancouver Island. The handbook is illustrated with over 75 drawings including 10 full-page copy masters that may be printed or made into overheads. Includes over 70 activities, integrated across the subject areas of fine arts, science and social studies and correlated to the B.C. Ministry of Education IRPs. Reference #LA S68. Grades K-7. Cost: \$30.00. French edition: #S68 - Salish Sea: Manuel de l'enseignant \$30.00.

* NOT SO SCARY

SCIENCE. 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. In this unit a multiplicity of sensory observations is used to have the teacher delve into a series of activities for the classroom that will have students applying the skills used by biologists to develop an understanding of the natural world. Activities include finding the hidden key to treasure; how tall is that tree and how old is that forest?; plot study; critter corner; and food web



RESOURCES TEACHERS' SHOPPING LIST

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

drawing. Reference #LA 9537. Grades K-7. Cost: \$11.00.

- * **RETHINKING GLOBALIZATION: TEACHING FOR JUSTICE IN AN UNJUST WORLD.** Produced by Rethinking Schools, Edited by Bill Bigelow and Bob Peterson. 402 p., (c)2002. This comprehensive collection for teachers and activists includes role plays, interviews, poetry, stories, background readings, hands-on teaching tools and much more in addressing some of the most complex issues facing our world today including sweatshops, child labour, hunger, debt and more. Reference #LA 2001. Grades 4 and up. Cost: \$20.95.

Annick Press

Vancouver, BC
E-Mail: annick@annickpress.com
<http://www.annickpress.com>

- * **JUNGLE ISLANDS: MY SOUTH SEAS ADVENTURE.**

Written by Maria Coffey and Debora Pearson, photographed by Dag Goering (BC authors). This 88-page book documents an adventure by kayak through the beautiful, but dangerous Solomon Islands in the South Pacific. Populated by centipedes, crocodiles, and malaria-carrying mosquitoes, it is also home to orchids, butterflies, and cockatoos. Maria and Dag kayak around the islands and snorkel through incredible reefs alive with fish, sharks, and underwater plant life. They are taken to Skull Island, a place where spirits live among the



skulls of dead chiefs. And they witness the incredible sight of huge leatherback turtles laying eggs. They also get to know the people and the customs of the islands, learning to cook traditional foods. Numerous sidebars reveal cultural facts and information about the islands and the surrounding areas. Includes an index. A non-fiction account, using words, maps and photographs. Grades 4-7. Cost: soft-cover \$14.95, hardcover \$26.95.

- * **NORTHERN LIGHTS: THE SOCCER TRAILS.**

Written by Michael Kusugak. This 24-page picture book explores the Inuit belief that the Northern Lights are the souls of the dead, playing soccer in the sky. The story is about a little girl growing up in the Arctic. With the help of her grandmother's story about the Northern Lights, she learns how to cope with the death of her mother. The author spent his childhood traveling by dog team, living in igloos in the winter and tents in the summer. He had no access to books as a child, and didn't speak a word of English until he was seven. "Every night, my grandma would tell us a story to put us to sleep," he recalls. "I take things that are native to me, such as the northern lights, and create a story around them." Grades: 1-4. Cost: soft-cover \$5.95, hardcover \$16.95.



Crabtree Publishing Co.

St. Catharines, 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>

- * **THE OCEAN BIOME.**

Written by Kathryn Smithyman and Bobbie Kalman. 32 page book. Oceans and seas form the marine biome, which is the world's largest biome. It covers three-quarters of the Earth's surface and reaches from the far north to the far south of the planet. The diverse and complex concepts and relationships of the marine biome are made accessible to young readers in The Ocean Biome. Full-color illustrations, dazzling photography, and easy-to-understand text explain: the four zones that make up the marine biome; the plants and animals that inhabit each of the zones in an ocean; the diversity and importance of coral reefs and estuaries; the importance of oceans to the rest of the Earth; oceans in danger and how to conserve oceans. Grades 2-9. Cost: soft-cover \$8.06, hard-cover \$19.96.



FORED BC

For Education about our environment and its natural resources.

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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

• WORLD LINKS FOR DEVELOPMENT (WORLD)

<http://www.worldbank.org/worldlinks/english/index.html>

The World Links for Development program links students and teachers in secondary schools in developing countries with students and teachers in industrialized countries for collaborative research, teaching and learning programs via the Internet. WORLD is sponsored by the Economic Development Institute of the World Bank.



• KIDS VOTING CANADA

<http://www.kidsvotingcanada.com/go.htm>

Teachers will receive curriculum and election packages about the Canadian election process, when their school is registered.



• MISS MAGGIE'S EARTH ADVENTURES

<http://www.missmaggie.org>

Miss Maggie's Earth Adventures is a free website for teachers and students, presenting an engaging and animated story with educational games. The Teacher's Area offers free lesson plans, activities, and reproducible handouts. The ad free, environmentally focused site contains science experiments, math problem solving activities and the first story in a series titled, A Great Catch.

• HOME EXCHANGE BETWEEN TEACHERS AND RESEARCHERS

<http://www.iep-net.org>

IEP is a home exchange service addressed to teachers and researchers. IEP specializes in providing access to home exchangers, holiday foreign student exchange and home rental worldwide.



• ENVIRONMENTAL EXPEDITIONS

<http://www.travel2learn.com>

Rainforest workshops give direct experience with recognized researchers, professional connections, and the enthusiasm to pass on new found knowledge. Join an engaging faculty in some of the most biologically diverse areas of the world.



• MAKING A DIFFERENCE COLLEGE GUIDE

<http://www.making-a-difference.com>

Find distinctive colleges and graduate programs, as well as prestigious scholarships and fellowships for socially and environmentally concerned students.

• TEACHING FOR CHANGE

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

Teaching for Change provides curriculum guides and other resources to help teachers engage students in innovative classroom activities that deal with issues of equity and social justice.

• GLOBAL ENVIRONMENTAL AND OUTDOOR EDUCATION COUNCIL (GEOEC)

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

The GEOEC is a council of the Alberta Teachers' Association. Site contains professional development opportunities, a

vast array of teaching resources and networking for educators in Alberta and beyond. The annual conference, workshop series and Connections newsletter are highly valued by teachers, researchers, park interpreters, industry, and communities.

• TREE MUSKETEERS

<http://treemusketeers.org>

Tree Musketeers is a non-profit, youth environmental organization run by kids for kids. The site has information about programs youth can participate in and lead in their own hometowns. Programs emphasize leadership skills learned through tree planting and tree care activities.



• EDUCATIONAL IN NATURE

<http://www.gp.com/EducationalInNature>

Free, informative environmental education materials. Georgia Pacific Corp. has launched a web site for its Educational in Nature series of environmental education supplements. It is available to anyone interested in learning more about forests, forestry and the environment in an interactive format.

• AMPHIBIA WEB

<http://elib.cs.berkeley.edu/aw/>

AmphibiaWeb offers taxonomic information for every recognized species of amphibian in the world. Species descriptions, life history information, conservation status, literature references, photos and range maps are available for many species and are being added to regularly by specialists and volunteers from around the world.



• THE RESOURCEFUL SCHOOLS PROJECT

<http://www.resourcefulschools.org/coordinators.html>

Waste Management Teams are an effective way to "get the ball rolling", to help launch a 3Rs program and to promote recycling activities in the school. As the recycling coordinator, you cannot accomplish this alone! You need support from many different people in your school building. This site will help provide the information you need to start your school on the "right" recycling path.



• CLIMATE CHANGE CALCULATOR

<http://www.climcalc.net>

The Calculator collects information from the user about daily activities and lifestyle choices relating to energy use, then estimates personal CO2 emissions and compares this to the average for the user's province/territory. Hints and tips to reduce emissions are provided, and it is possible to determine the specific reductions achieved for different steps taken. The user can save his/her results and revisit the Calculator over time, determining how life-style changes have impacted personal emissions.



• EARTH BALLOON

<http://www.earthballoon.com>

The Earth Balloon is an interactive Social Studies/Environmental/Science K-12 school assembly program used in teaching students of all ages about our physical earth and environment. This site also contains links to teacher resources.