

BIODIVERSITY-RELATED EDUCATION RESOURCES & LESSONS

Agency (Alphabetical)	Program	Description	Grades	Training/ Support	Sample Activities/Lessons
American Museum of Natural History	Ology http://www.amnh.org/ology/?channel=biodiversity&c	Multimedia games and activities about biodiversity.	Primary	Online.	<u>Games & Activities</u> Web of Life; Bio-poll; Endangered
Biodiversity Education and Awareness Network (BEAN)	Pulling for Biodiversity – Managing Invasive Species in Ontario http://www.biodiversityeducation.ca/index.php/bean_education_materials	Unit designed to introduce the concept of invasive species, explain in an interactive and engaging manner why they are so destructive to native biodiversity, ecosystems and our economy, and identify what resource managers and ordinary citizens can do about them.	Upper primary and intermediate	Online.	What Are Invasive Species? Musical Mussels; Crayfish Conundrum; Garlic Mustard Invasion Managing Invasive Species
Biosphère, Environment Museum	Urban BioKits	Booklets that guide the discovery of urban nature areas.	Elementary	Contact to have it mailed to you (Ann.Dacres @ec.gc.ca)	Nature sketching; Journal entry; Wildlife and cloud observation
Canadian Environmental Literacy Project	CELP http://www.celp.ca/	Teaching modules related to environmental education including presentations, discussions material, and experiential exercises.	High schools, college, universities	Downloadable material.	Biodiversity and Its Conservation; Black Bear Spring Hunt; Bird Communities and Forestry Practices: A Comparison of Wildfire and Clear-cutting in Boreal Ontario; Urban Plant Diversity Activity
Canadian Forestry Association	CFA Teaching Kit http://www.canadianforestry.com/kits/	Eight volumes of teaching kits that include lesson plans, practical information on forest issues, and examples of relevant recovery, conservation and stewardship programs. The lessons incorporate interactive,	4-12	Teaching kits are downloadable .	<u>Volume 3</u> (biodiv.) <u>Grades 4-6</u> It's What's Inside That Counts; What our Elders Say <u>Volume 4</u>

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		hands-on activities that reflect learning outcomes and expectations in curriculum guidelines.			<u>Grades 4-7</u> Diseases, Pests and Fires, Oh My! <u>Volume 6</u> <u>Grades 4-8</u> Changes & Choices <u>Volume 7</u> <u>Grades K-4</u> Boreal Footprints <u>Volume 8</u> <u>Grades 3-6</u> Interdependent Me
Canadian Museum of Nature	http://nature.ca/education/index_e.cfm	The Teacher Zone has curriculum-based workshops, lesson plans, activities and games for exploring the natural world.	4-12	Downloadable lessons. Online Games. Activity and craft ideas. Specimens to rent. Birding in a Box teaching kit. Videoconferencing. Workshops at the museum.	<u>Grades 4-7</u> Food Web <u>Grade 6</u> Creating a Classification System <u>Grades 7-9</u> Digging for Diatoms <u>Grades 7-12</u> Increase Your Albedo! <u>Grades 10-12</u> Scenarios for the Future; Extinction in the Classroom; Comparing Hares and Rabbits
Canadian Botanical Gardens	Canadian Outreach Guide to Plant Biodiversity Education http://www.plantbiodiversity.ca/en/activities.php	Searchable database of activities, info and links about plants and their habitats.	4-12	Downloadable lessons. Member login required.	<u>Grades 4-10</u> Biodiversity identification Race <u>Grades 6-9</u> Des raciness et des

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					itineraries; Biodiversity Trust Games <u>Grades 8-12</u> Pond Succession Murals
Canadian Parks and Wilderness Society (CPAWS)	CPAWS Resources for Educators http://www.cpawscalgary.org/education/resources_educators.php	Grade-specific, downloadable activities linked to grade and subject – science, social studies and language arts.	3-12	Downloadable lessons, activities, and resources	<u>Grades 3-12</u> How We're Connected; What About Shady Acres? How Do Species Become Extinct?
Canadian Wildlife Federation	Project Wild http://www.wildeducation.org/programs/project_wild/prog_wld.asp	Activity guides focused on wildlife and habitat. They are organized by topic units and are designed for integration into existing courses of study.	K-12	Curriculum and activity guides are distributed to participants of Project Wild workshops. Sample lessons online.	<u>Grades K-2</u> Are You Me? <u>Grades 4-12</u> Animal Charades; Water Canaries
Canadian Wildlife Federation	Below Zero http://www.wildeducation.org/programs/below_zero/belwzero.asp	Educational program designed to promote understanding of wildlife under winter conditions. Modeled and complementing Project Wild.	K-12	Curriculum and activity guides are distributed to participants of Below Zero workshops. Sample lessons online.	<u>Grades K-6</u> Bird Banquets <u>Grades 4-9</u> Snow Place Like Home <u>Grades 7-12</u> Winter Wonders
Canadian Wildlife Federation	Hinterland Who's Who http://www.fdp.ca/hww.asp?id=5&pid=0	Lesson plans about conservation concepts such as biodiversity, sustainability, ecosystem conservation, and endangered species recovery. Students will develop an understanding of the impact	4-12	The lesson plans are downloadable	<u>Grades 4-12</u> Improving Wildlife Habitat in the Community; Strangers in Their Own Land; Watch Over Wild Wanders

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		humans have on our environment, and discover ways to preserve Canadian wildlife.			
Canadian Wildlife Federation / Ontario Ministry of Natural Resources	Fish Ways http://www.wildeducation.org/programs/fish_ways/fishways.asp	Activities and lessons to acquire knowledge of aquatic ecosystems, cultivate positive attitudes towards fish to ensure their protection and rehabilitation, understand an ecosystem approach to responsible fisheries management, and develop respect for the environment and a commitment to the wise use of resources.	K-12	Curriculum and activity guides are distributed to participants of Fish Ways workshops.	<u>Primary</u> Fish Stories; Let's Play Fish Stories <u>Grade 7-8</u> Lethal Legacy; Trout Trails <u>Grade 11-12</u> A Tail of Two Lakes; Trout Lake: A Fish Community Assessment
Canadian Wildlife Federation	National Wildlife Week (April) http://www.cwf-cf.org/en/educate/programs/national-wildlife-week/	An educational kit is produced each year featuring a different conservation theme, such as water resources, community action, biodiversity, sustainability, shoreline habitat, climate change, invasive species, or endangered species recovery. During NWW, the federation encourages schools and communities nationwide to celebrate wildlife in all its diversity through nature hikes, mall displays, poster contests, film festivals, and habitat restoration projects.	K-12	Downloadable teachers guide with background info, lesson plans, and curriculum links. Posters available.	<u>2009 – Our Home and Native Plants</u> Native Plant Puzzles; Native Plants and Their Environment ; Local Native Plants
Canadian Wildlife Federation	Oceans Education / Rivers to Oceans Week (June) http://www.wildeducation.org/	Classroom-ready, thematic unit pays tribute to Oceans Day (June 8). It constitutes a long-term lesson plan designed to inform youth about a particular oceans issue, such as sustainability, marine ecosystems, or migratory	K-12	Downloadable teachers guide with background info, lesson plans, and curriculum links.	<u>Grades 4-12</u> Cool Wildlife Interviews; Journey North by River Inc.; Create Hands-on or Electronic Northern Waters Presentation.

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	http://www.wildeducation.org/programs/blue_school/oceneduc.asp	habitat. Students can also help save our seas by registering their institution as a Blue School and developing and carrying out a "Blueprint for Ocean Action."		Ocean kits and Discover Canada's Watershed maps can be ordered.	
Canadian Wildlife Service	Great Lakes Kids http://www.on.ec.gc.ca/gr eatlakes/default.asp?lang =En&n=4DB7BBAD-1	Gamers, activities, comic story, videos, and homework helpers.	Primary and intermediate	Online	Water Heros Comic Morphie's Water Adventure Wetland Jigsaw Puzzle; Drag drop habitat game, Migration Challenge,; Endangered Species Concentration Game
Centre for a Sustainable Economy	Ecological Footprint Quiz http://www.myfootprint.org/	Online ecological footprint calculator.	6-12+	Calculator, information about the calculator and stats are available online.	<u>Grade 6-12+</u> Ecological Footprint Calculator
Children and Nature Network	http://www.childrenandnature.org/resources/	Activity ideas for families and nature clubs to connect children and nature.	Pre-12+	Documents available online.	<u>Documents</u> Nature Clubs for Families Tool Kit; Family Activities, Family Stories: Where Nature Meets Story
Climate Change North	http://www.climatechange north.ca/	Background information, lesson plans and resources developed for Yukon, Northwest Territories, and Nunavut to make the topic of northern climate change come alive for students. Includes creative arts and traditional ecological knowledge lessons.	K-12	Backgrounders and lesson plans available on the web and in printable format.	<u>Primary & Intermediate</u> Polar Bears & Ice; The Land is Changing: Stories from Across the North <u>High School</u> Observing the Land Over the Seasons; On Thinning Ice: An

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					Eco-theatre Production about Climate Change
Comité de valorisation de la Rivière Beauport (CVRB), Biosphère (Environment Canada)	Adopt-A-River http://www.pjse.ca/projets_educatifs/adopte/adopte.php?lang=10&o=1	Science program that involves observation and assessment of a river's natural environment; data shared on network.	5-9	Training (Eastern Ontario) and scientific support offered	Evaluate and report on the health of a local river's aquatic ecosystem.
Convention on Biological Diversity	Biodiversity and Agriculture https://www.cbd.int/ibd/2008/resources/teaching/	An educational module on biodiversity and agriculture. Comprises of an online educational web portal for primary school students and five accompanying lesson plans for educators. Educators can also download the children's web portal in a booklet format.	4-6	Teachers guide, student booklet and lessons plans downloadable	<u>Grades 4-6</u> What is biological diversity? What does biodiversity have to do with the food we eat? Can food affect biodiversity?
Convention on Biological Diversity	Biological Diversity for Kids http://kids.cbd.int/	Multimedia games and activities based upon ecological adaptation and extinction.	3-6	Downloadable educators' package with linked activities.	<u>Games</u> Make Me a Home; Super Animal Creator; Mission: Cat Rescue
Cornell Lab of Ornithology	BirdSleuth http://www.birds.cornell.edu/birdsleuth/	BirdSleuth provides a way to teach science process through engaging, hands-on activities, citizen science, and authentic scientific research.	4-12	"Most Wanted Birds" and "Exploring Bird Behaviour" curriculum kits available for order; samples online.	Crows Count!; Be a Bird Observer; Silhouette Sleuther
Council for Environmental Education	Flying WILD http://www.flyingwild.org/	Flying WILD introduces students to bird conservation through classroom activities and environmental stewardship projects.	6-8	Guides are distributed at training workshops.	<u>Teacher Led</u> Bird Behavior Scavenger Hunt; Create Your Own Food Web; Migratory Mapping <u>Student Led</u>

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					Aiming to Save; Avian antics; The Birding Beat <u>Festivals in Many Forms</u>
Council for Environmental Education	Growing Up WILD http://www.projectwild.org/GrowingUpWILD.htm	Growing Up WILD is an early childhood education program that builds on children’s sense of wonder about nature and invites them to explore wildlife and the world around them.	Early Childhood Education 1	Guides are distributed at training workshops or can be ordered (form online).	27 activities all with “Take Me Outside” sections; Copy Me Pages; Alphabet Pages; Wildlife Fact Sheets; Home Connections; Holiday Calendar; Book list
Council for Environmental Education	Wet in the City http://www.wetcity.org/ Team WET Schools http://www.wetcity.org/TeamWETSchools/	WET in the City engages K-12 youth in hands-on activities that creatively explore the science of water, its cultural context, and complex issues surrounding its management and stewardship. The program is delivered at the local level, city by city, and targets urban educators. Team WET Schools is a companion program to WET in the City, bringing urban water issues to the forefront of environmental education in school buildings.	K-12	Guides are distributed at training workshops.	<u>Intermediate</u> A Recipe for Clean Water
David Suzuki Foundation	The Nature Challenge Teacher’s Guide http://www.davidsuzuki.org/NatureChallenge/at_School/background.asp For Kids, Teachers & Parents (NC4K) http://www.davidsuzuki.org/kids/teachers/classroom	Teacher’s Guide includes twenty lessons that use discovery-based learning to explore how everything is connected to nature. Core lessons explore how choices about our homes, food, and transportation affect the environment.	4-7	Teacher’s guide is downloadable	<u>Grades 4-7</u> A Piece of the Puzzle; Berry on the Run; Needs and Wants; Picture Perfect; Bringing it Together

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	.html	NC4K website has resources, links, and 'at home', 'eating right', 'get involved', and 'getting around' activities.			
Ducks Unlimited	Project Webfoot http://www.ducks.ca/resource/teachers/index.html Wetland Centres of Excellence http://www.ducks.ca/resource/teachers/classroom/index.html	Literacy unit plans with hands-on activities and interactive lessons related to environmental, technological and social aspects of science. High Schools interested in longer term enrichment and action projects focused on wetlands can partner with DUC to create a Wetland Centre of Excellence. These outdoor classrooms offer students a wide variety of cross-curricular activities	4-12	The units consist of downloadable educator's guides, lesson plans and student journals.	<u>Grades 4-6</u> Together We Stand, Divided We Fall; Water Zones and the Cycle of Life; <u>Grades 7-8</u> The Environmental Puzzle and Abiotic Factors; The Human Equation <u>Grades 9-12</u> A Species and Ecosystem in Peril; Wetlands and Environmental Quality
Earth Care	http://www.earthcarecanada.com/EarthCARE_Program/EarthCARE_lessons.asp	Environmental quizzes, handouts, activities and lessons online.	K-12	Quizzes, handouts, activities and lessons online. Article on the connection between character and environmental education.	<u>Grades 4-6</u> The Recycling Maniacs <u>Grade 5</u> Environmental Checklist <u>Grade 7</u> Ecosystems
Earth Charter	http://www.earthcharterinaction.org/content/ Teacher Resource Centre http://trcwiki.free.fr/joomla/ Other Resources:	A diverse, global network of people, organizations, and institutions that participate in promoting and implementing the values and principles of the Earth Charter.	All	Links to lessons and other resources that relate to the Earth Charter.	<u>Grades 10-12</u> Making a Difference for the Environment;

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	http://www.earthcharterinaction.org/invent/				
Earth Day Canada	Ecokids http://www.ecokids.ca/pub/teachers/resources/index.cfm (Click "Printables" or "Lesson Plans")	Curriculum related activities and lessons. Some materials geared towards English as a Second Language students.	K-8	Lesson plans and activities can be downloaded	Frog Monitoring; Build a Toad Home; Migration Frustration; Eye Spy Animal Defences Oil Spill
Earth Rangers	http://www.earthrangers.com/about/	Interactive games and information about the animal ambassadors and eco-feats.	Primary	Online	<u>Games</u> A Leafy Celebration; Erosion Fighter
EcoVoyageurs	http://www.ecovoyageurs.ca/en/page.cgi?stage=teachers/teachers	Integrated curriculum based on ecological footprints.	6-9	Student and teacher Guides available online as pdfs. Ideas and resources also online.	First Steps; Learning to Walk; Walking Lightly; Walking Together
Education World	http://www.educationworld.com/a_lesson/archives/science.shtml http://www.educationworld.com/holidays/archives/earthday.shtml	Many, many lesson plans grouped by topic. Can browse by topic or key word search.	K-12	Lesson plans available online with downloadable worksheets if applicable.	<u>Grades 3-8</u> How Long Does Trash Last? Say it with Flowers! Bug Me While I'm Eating <u>Grades K-12</u> Composting with Worms
Environment Canada	Lesson Plans in Pollution Prevention http://www.ec.gc.ca/cppic/citizens/lessonPlans/En/index.cfm	Designed for teachers and other educational professionals wishing to educate their students about pollution prevention and other environmental issues.	6-8	Lesson plans and other resources online.	<u>Grade 7</u> Alternatives and Science Labs; Communities and Design; Waste and Problem Solving <u>Grades 6-8</u> Structures and Models <u>Grade 8</u>

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					Transport and Graphing
Environmental Protection Authority (EPA) Victoria	http://www.epa.vic.gov.au/students/default.asp	Environmental activities focused on the environmental impacts of choices and practices.	Primary, Secondary and Tertiary	Student activities, teacher's resources and information online.	Ecological Footprint; Life Cycle Thinking; Unpacking the Living Planet Report 2006; Water; Energy; Greenhouse Gasses
Envirothon Ontario	http://www.ontarioenvirothon.on.ca/02_ont_env.html	A team-sport for environmental smarts where what is learnt in the classroom gets tested outside. The 4-day competitions include field testing competitions, environmental problem solving, learning about career opportunities, and improving the environment.	9-12	Teams entering receive a CD with the study materials and other info.	Topics are: Forestry, Wildlife, Aquatics, Soils, and Current Issues
Evergreen	School Ground Greening http://www.evergreen.ca/en/lq/plans_listing.html	Lesson plans have been submitted by teachers who are interested in sharing their wisdom with others teaching in green school grounds.	K-12	Lesson plans can be downloaded	<u>Grade 1</u> Natural Figures <u>Grade 2</u> The Night Tree <u>Grade 4</u> Is this Habitat for Me?; Postcards from ... <u>Grade 10</u> Nice Niche!; Rotting Log
EYES Project	http://www.eyesproject.com/index.html	Promotes environmental and sustainability education through the design and delivery of innovative professional development initiatives for educators and engaging learning experiences for youth.	Primary and Secondary	Project info and links for youth and educators.	<u>For Educators</u> Presentation Series; Sustainable Development Workshop; Voices for Sustainability Symposium Series; Bioregional Learning Communities Initiative

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					<p><u>For Youth</u> Presentation Series; Becoming Societal Change Agents Workshop; Educational Expeditions</p>
Falls Brook Centre	<p>Teacher's Corner http://www.fallsbrookcentre.ca/teaching/index.htm</p>	<p>Development and promotion of meaningful demonstrations to show it is possible to live more lightly in our environment while contributing positively to the local economy.</p>	3-12	<p>Downloadable resources, lessons, interactive web units, activities and games.</p>	<p><u>Grade 8</u> World View Take-Home Reading Assignments</p> <p><u>Grades 9-12</u> Conscious Consumerism – The Fair Trade Alternative</p> <p><u>Grades 10-12</u> Getting to Know Our Non-Timber Forest Products</p> <p><u>Web Units</u> Day in the Life of a Changing Climate; Tracking Our Trash</p>
GLOBIO	<p>Glossopedia http://www.globio.org/info/educators/lag.htm</p>	<p>Ten learning activity guides (LAGs) focus upon environmental issues, including wetlands and conservation.</p>	4-8	<p>The LAG's are downloadable</p>	<p><u>Conservation LAG</u> I Want to Be a Conservationist! Protection Experts</p> <p><u>Environments LAG</u> Environments are Everywhere; Recycling Pros</p>
Government of Canada	<p>Northern Climate Change Schools Program http://www.taiga.net/nce/schools/teachers_instresou</p>	<p>Lesson plans to bring climate change into the classroom; geared to northern schools.</p>	4-12	<p>Lesson plans available online.</p>	<p><u>Grade 5</u> Trees and Climate Change</p> <p><u>Grades 4-12</u></p>

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	rces.html				<p>Cloud Observations using GLOBE Protocols; Conducting a Snow Study Pit</p> <p><u>Grades 7-12</u> Cloud Research Project using GLOBE Protocols and Elder Surveys</p> <p><u>Grades 10-12</u> Scientific Investigation of Sea Ice Thickness and Extent and Cultural Exploration of Sea Ice Significance</p> <p><u>Grade 11</u> How to Interconnect Your School to the Grid</p>
Green Street	http://www.green-street.ca/en/	Access to environmental programs, funding opportunities, and communities.	K-12	Online library of resources, youth centre, teacher's café and community centre.	
Green Teacher	http://www.greenteacher.com/	Magazine that helps youth educators enhance environmental and global education inside and outside of schools.	K-12	Digital and/or paper subscription required.	<p><u>Grades 6-8</u> Storm water Runoff: Understanding the Ecological Impacts of Changing Land Uses</p> <p><u>Grades 9-12+</u> Planet Transit: Profit or Survival</p>
Green Wave	http://greenwave.cbd.int/a	The Green Wave is a global	K-12+	Resources	Tree planting

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	bout-greenwave	biodiversity campaign to educate children and youth about biodiversity.		and links about biodiversity, climate change, tree planting, and the Convention on Biological Diversity	Photo contest
Journey North	http://www.learner.org/jno_rth/	Journey North is an internet-based program that explores the interrelated aspects of seasonal change: sunlight and seasons, plants and seasons, and seasonal migrations.	K-12	Resources are online: maps of sightings, sighting entry form, background info, questions and answers, lessons, activities, readings, and related news coverage	Monarch Butterflies; Whooping Cranes; Hummingbirds; Bald Eagle; Symbolic Migration; Sunlight and Mystery Class
Kids Can Press	<p>Tree of Life- The Incredible Biodiversity of Life on Earth</p> <p>http://www.kidscanpress.com/Canada/Tree-of-Life-P5661.aspx (Click "Learning Materials")</p> <p>One Well – The Story of Water on Earth</p> <p>http://www.kidscanpress.com/Canada/One-Well-P5764.aspx (Click "Learning</p>	<p>Eight educational activities associated with the book "Tree of Life" that focuses on the diverse characteristics of habitats and species.</p> <p>Five educational activities associated with the book "One Well" that focuses on the importance of water and wetlands</p>	3-7	The educational activities are contained in a downloadable document	<p><u>Tree of Life</u> Food Chain; Scavenger Hunt; Kingdoms of Life; Things With Wings; Vertebrate Trivia; Getting Around; Your Environment; What If</p> <p><u>One Well</u> The Weight of Water; Charting Water; Desalinating Salt Water; The Role of Wetlands; Water Pollution</p>

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Learning for a Sustainable Future (LSF)	Materials") Resources for Rethinking http://www.r4r.ca/en	Large, searchable database provides access to materials that integrate ecological, social and economic spheres.	K-12	Lessons plans and activities can be downloaded or ordered through the mail	<u>Grades K-12</u> Five Minute Fieldtrips <u>Grade 2</u> How the Bat Came to Be; Moth, the Fire Dancer; Survival <u>Grades 4-7</u> The Nature Challenge/Lesson C <u>Grades 4-12</u> Bearly Any Ice (HS) <u>Grade 7</u> Beaver, Moose, and Freshwater Turtle: The Dependence of Canada's Iconic Species on Freshwater Habitats <u>Secondary</u> Lessons for Hope
Learning for a Sustainable Future (LSF)	Step Outside http://r4r.ca/en/step-outside/nature-guides	Seasonal, hyperlinked guides to natural happening in south-central Ontario.	Teachers and students.	Available online and as a pdf.	<u>Titles</u> Your Local Insect Symphony; Spectacular Salmon Struggle; Fall Foliage; Why the Decline?; Getting Ready for Winter; Where Do the Frogs Go in the Winter?
Learning to Give	Save the Earth Now http://learningtogive.org/savetheearth/	Database of environmental stewardship lessons and information; searchable by subject and grade.	K-12	Lessons, briefing papers.	<u>Grades K-2</u> The Four R's: Reduce, Reuse, Recycle, RESPECT!

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	Lessons http://learningtogive.org/savetheearth/binder.asp				<u>Grades 9-12</u> Whose Responsibility is it? Earth Day
Lesson Planet – The Search Engine For Teachers	Lesson Planet http://www.lessonplanet.com/directory/Science/Environment/Ecology/Biodiversity	Mission is to empower educators with fast, easy access to teacher-reviewed online curriculum resources.	K-12+	Must be purchased.	<u>Grades 3-5</u> Introducing Biodiversity <u>Grades 5-7</u> School Yard Biodiversity <u>Grades 6-8</u> Looking for Biodiversity <u>Grades 6-12</u> Biodiversity: Who Cares <u>Grades 9-Higher Ed</u> What is a Species?
Natural Resources Canada	Energy and the Environment http://oee.nrcan.gc.ca/calendarclub/lessons/	Lessons on energy sources, uses, impacts, efficiency, and conservation	K-8	Activities, downloadable activity book, games, and art contest.	<u>Grade 1</u> Energy: We rely on the constant flow of energy from the sun to live <u>Grade 5</u> Energy: Extracting, transporting and processing natural resources uses a lot of energy
National Geographic	Xpeditions http://www.nationalgeographic.com/resources/ngo/education/xpeditions/lessons/matrix.html		K-12	Available on the web with support links (some are outdated and broken).	<u>Grades K-2</u> Caribou Migration; Forest Features; Taking Care of Our Oceans <u>Grades 3-5</u> Preservation is

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					<p>important? Says who? Antarctica: A cold desert Ecosystem; Ecosystems; The Galapagos Islands: A Special Place; What's So Key About a Keystone Species?</p> <p><u>Grades 6-8</u> Why Preserve Biodiversity? Biodiversity DNA and Endangered Species; Dugongs, Elephants, and Evolution; Harvesting the Ocean for Medical Science; Polar Regions: Arctic Adaptations and Global Impacts; Postcards from the Edge: Endangered Species; The Antarctica Ecosystem: Where Would It Be Without Krill; Aquatic Invaders Invasive Species</p> <p><u>Grades 9-12</u> Biomagnification in the Great Lakes Ecosystems; Can Captive Breeding Save Species? Maybe Not-So-Fine Feathered Friends;</p>

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					Survival of the Fittest Wildlife Conflicts
National Geographic	Wild World Eco-Atlas http://www.nationalgeographic.com/wildworld/educators.html	Designed to help bring the wonders of biodiversity and the urgency of conserving it in the classroom. Maps are accompanied by the educator's guide, offering lesson plans and activities on map fundamentals, biodiversity, and ecoregions.	2-12	Resources are downloadable	<u>Grades 2-6</u> Build an Ecoregion <u>Grades 5-12</u> Biodiversity: The Spice of Life
NatureWatch	Home http://www.icewatch.ca/english/ FrogWatch http://www.naturewatch.ca/english/select_province.html IceWatch http://www.icewatch.ca/english/icewatch/ PlantWatch http://www.naturewatch.ca/english/plantwatch/ WormWatch http://www.naturewatch.ca/english/wormwatch/ ButterflyWatch http://www.naturecanada.ca/cwn_naturewatch_bw.asp	NatureWatch is a series of ecological monitoring programs that encourage you to become a citizen scientist. NatureWatch lets you learn about the environment while gathering information scientists need to monitor and protect it.	Elementary and Secondary	Program info, training and tips, and educator materials online. Can also view results and submit observations online.	FrogWatch IceWatch PlantWatch WormWatch ButterflyWatch
Nature Rocks	http://www.naturerocks.org/	Activity ideas to connect with nature (searchable by time available, location, and age).	pre-12+	Online activities.	
Ontario Agri-Food Education	http://www.oafe.org/catalogue/view/index.php?	Materials and information that enhances the ability of teachers and learners to understand the value and importance of an agri-food system	K-12	Resources for order (some free).	<u>Grade 3</u> Native Foods <u>Grades 6-8</u> Eco-Detective
Ontario EcoSchools	Ontario EcoSchools http://ontarioecoschools.o	Lessons to develop ecological literacy while engaged in practices to become	1-12	Resources are downloadable	<u>Grades 1-8</u> Waste Minimization by Grade; Energy

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	http://www.environmental.ca/curriculum_resources/index.html	environmentally responsible citizens.		Presentations can be ordered on CD as well	<p>Conservation by Grade; Celebrating EcoSchools: Festival Guide; The 20/20 Planner & Teacher's Guide</p> <p><u>Grades 9-12</u> Climate Change in Grade 9 Geography; Climate Change in Grade 10 Science; Climate Change in Grade 11 & 12 Geography; Climate Change in grade 11 & 12 Science</p> <p><u>Secondary Presentations</u> Changing Climate, Changing Attitudes; The Impacts of Climate Change; The Science of Climate Change</p>
Ontario Federation of Anglers and Hunters	<p>Making Waves! Protecting Ontario's Aquatic Habitat</p> <p>http://www.invadingspecies.com/</p>	<p>A lesson package that revolves around the curriculum's <i>Science and Technology</i> – <i>Life Systems</i> strand with integrated lessons and warm-up/wrap-up activities that reach across many other subject/strand areas. It familiarizes students with the concept of healthy habitats and communities, and demonstrates how our actions, can have a meaningful influence on maintaining the balance within them.</p>	4	Materials (CD) can be ordered through the mail	<p><u>Warm Up/ Wrap Up Activities</u> The Preventable Problem, Songs for an Ecosystem</p> <p><u>Lesson Plans</u> Sun Block, Changing Chains</p>

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Ontario Forestry Association	Focus on Forests www.focusonforests.on.ca	Online teaching resources, including lesson plans to engage students in indoor and outdoor activities centered on forest education.	K-12	Downloadable lesson plans, teacher resources, and homework helpers. Curriculum links. Must register.	<u>Elementary</u> Let's Look at Trees; Seed Secrets; Weird Wood Products; Autumn Adventures <u>Secondary</u> Paths to the Forest; Exploring Ecosystems
Ontario Ministry of Natural Resources	Black Bear Ecology http://www.mnr.gov.on.ca/en/Business/Bearwise/2ColumnSubPage/196968.html	Activity books and teaching kits include background readings, unit plan, lesson plans and suggested activities and information sheets about black bears. Generates awareness about black bears - their biological needs; their behaviour and how human action influences bears.	2,4,7	Activity books and teaching kits are downloadable.	<u>Grade 2</u> Motherly Love <u>Grade 4</u> Habitats; Food Chains and Food Webs <u>Grade 7</u> Abiotic versus Biotic and Ecosystem Function; Food Chains and Food Webs: Transfer of energy through an ecosystem
Ontario Parks	Campsite 24 Kids http://www.campsite24.ca/cp24kids.html Resources http://www.campsite24.ca/bookshelf.html Lessons http://www.campsite24.ca/cp24/search/process	This website is for both students and teachers, and brings Ontario's parks and protected areas to your home, classroom or library.	K-8	Interactive Kid Zone, Kid's In the Park resources sheets, lessons, and link to 'Hop to It' climate change activities.	<u>Grade 2</u> Insects: Growth, Change & Camouflage <u>Grade 3</u> Plants: Cycles, Seasons & Changes; Radical Roots; Surprising Stems; Flower Power; Lovely Leaves <u>Grade 4</u>

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Ontario Society for Environmental Education (OSEE)	http://osee.jamescreech.com/lessons.html	Organization dedicated to the promotion and improvement of environmental education.	3-12	Posted lesson plans that can be downloaded. Summaries and curriculum links provided.	Living Links: Food Chains; Food Webs <u>Grade 4</u> Call of the Wild <u>Grade 6</u> C.S.I. (Critter species ID) Integrating Ecology and Math <u>Grade 7</u> Canadian Biomes
(The) Otesha Project	http://www.otesha.ca/the+project/index.en.html Teacher Menu http://www.eyesproject.com/docs/teachermenuwork.pdf	Presentations about individual and collective choices towards local and global change, using a variety of theatre, multi-media, storytelling, motivational speaking, games, facilitation tools and workshops.	4-12	Otesha “Choices” presentation, book and workshop, Teacher’s menu of lessons, activities, and action guides. Support and resources for forming Triple-h programs within your school, which learn and deliver the presentation themselves.	Cradle to Grave – the Banana Workshop; Choices presentation
Parks Canada	http://www.pc.gc.ca/apprendre-learn/prof/index_e.asp	Curricula linked lessons designed to learn about Canada’s national parks, national marine conservation area, and national historic sites. Searchable by grade, subject, province/territory, and keyword.	3-12	Online lessons, activities, and teaching resources such as fact sheets and PowerPoint	<u>Grades 4-6</u> EcoPal <u>Grades 4-7</u> American Badger; Species at Risk and Their Habitat; Interdependence and

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				presentations.	Interactions, Ecological Integrity, and Grassland Biodiversity <u>Grades 7-9</u> Ecosystems and Species at Risk
Pembina Foundation	Green Learning http://www.greenlearning.ca/	Curriculum-aligned lessons and activities.	K-12	Downloadable teacher and student booklets. Requires registration.	Walk a Mile in My Shoes; The Home of the Future
Pinegrove Productions	Our Incredible World http://www.incredibleworld.ca/	Six video episodes and related resources to learn about the natural world and how it functions. Also video short series called Incredible World Investigators, Incredible Species, and Incredible Stewardship.	5-7	Video excerpts online and available to purchase. Study guide to accompany episodes, fact sheets, curriculum connections, games, images, and newsletters online.	<u>Our Incredible World Episodes</u> Discovering the World of Biodiversity; Sampling the Life Forms in an Urban Wetland; Identification Practice and Understanding Classification Systems; Classification Practice and Learning about Microorganisms; Understanding Adaptation to Specific Habitats; Presentation of Findings – Understanding Human Impact <u>Incredible World Investigators</u> Mission Impossible; Alien Invaders

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					<u>Incredible Species</u> Snapping Turtle; Green Heron <u>Incredible Stewardship</u> Building Eagle Nests; Peregrine Recovery <u>Incredible Games</u> Ultimate Turtle Survival
Project WET	http://projectwet.org/water-education-project-wet/water-education-project-wet/	Project Wet Curriculum and Activity Guide, Wonders of Wetlands Program, and Children in Discovery Series on water education.	K-12	Curriculum and activity guides available to purchase. Training workshops available.	Sum of the Parts; H ₂ O Olympics; Incredible Journey; Poison Pump
Robert Bateman Get to Know Program	http://old.gettoknow.ca/en/	Programs and resources to inspire connections between youth and nature, focused on encouraging youth to go outdoors and “get to know” their wild neighbours. Partnered with Parks Canada to run small, kid-friendly BioBlitzes to encourage learning about biodiversity through art, writing, photography and video activities with experts. National Treasure program (using GPS to discover nature in parks) coming soon.	K-12	Lesson plans, animal and plant observation templates, PowerPoint presentations, and kid’s area online. Interactive CD designed for use in the classroom available. List of speakers.	<u>Lessons</u> Teacher’s Plan; Plants; Digital Camera; Owl Pellets; Trees; Mapping; Insects, Spiders and Others; Birds; Mammals; Viewfinders; Sustainable Economics <u>PowerPoint presentations</u> A Guide to Field Guides; Observing Plants and Animals
Royal Institution of Great Britain	http://www.rigb.org/contentControl?action=displayContent&id=00000001053	Well written teaching notes about biodiversity. Online biodiversity quiz. Online games:	K-12	Online biodiversity teacher’s	Biodiversity Quiz; Bio Bob’s Biodiversity Adventure; Pond Life;

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		Bio Bob's Biodiversity Adventure (a game of survival and adaptation), Pond Life (in which you have to discover the interdependence of species), Born to Spawn (to get a taste of how scientists study an aspect of biodiversity), and Trade-Offs (to explore the complex issues involved in making decisions about the use of rainforest land).		notes, quiz, and games.	Born to Spawn; Trade-Offs
Royal Ontario Museum	<p>Schad Gallery of Biodiversity http://www.rom.on.ca/exhibitions/nhistory/nature/index.php?id=2&wk=0</p> <p>Patrick and Barbara Keenan Family Gallery of Hands-on Biodiversity http://www.rom.on.ca/exhibitions/handson/biodiversity.php</p> <p>Traveling Education Kits http://www.rom.on.ca/programs/edukits/index.php</p> <p>Online Activities http://www.rom.on.ca/programs/activities/index.php</p>	<p>The Schad Gallery of Biodiversity exhibit explores our world's biodiversity and the many factors affecting its conservation and survival. Online activities related to the museum's exhibits.</p> <p>Patrick and Barbara Keenan Family Gallery introduces visitors of all ages to the complex relationships among all living things.</p>	K-12	Galleries and museum visits. Traveling Education Kits and online activities.	<p><u>Traveling Education Kit</u> Hands on Nature</p> <p><u>Online activities</u> Trees for Toronto: The Trees of Queen's Park; Bird Song Quiz; From Bats to Rats</p>
San Diego Zoo	<p>Biodiversity Education http://www.sandiegozoo.org/teachers/curr_biodiversity_activ.html</p>	Online lesson plan entitled "The Value of Biodiversity" (scroll down a bit)	9-12	Online lesson plan.	<u>Grades 9-12</u> The Value of Biodiversity
Seeds of Diversity	<p>Pollination Canada http://www.pollinationcanada.ca/</p>	The Pollination Canada program, a new "citizen science" program, allows the Canadian public to participate in	High school	Observer's Kits. Online observer's forms and	

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		a nationwide survey of pollinators.		resources.	
SEEDS Foundation	School Challenges and Green Schools http://www.seedsfoundation.ca/challenges.html	Encourages students to take environmental action through school challenges and details school programs to become a recognized green school.	1-8	Green School Kit can be ordered. It includes a trophy, banner, log books, progress charts, environmental certificates, doortags, an idea book, and an inflatable earth ball.	<u>Class/ School Challenges</u> Cloud Watch; Bird Watch; Take the Plunge; Canadian Literacy Challenge; One Tonne Challenge
Shorebird Sisters School Program	http://www.fws.gov/sssp/whyteachshorebirds.html	A science-based environmental education program designed to engage participants in learning about shorebirds and their conservation.	K-8	36 page activity booklet available by .pdf or CD on order (free).	<u>Primary & Intermediate</u> Build a Shorebird; What Can I Eat With This Beak? Mindful of Migration; Wetland Metaphors
Sierra Youth Coalition	Sustainable High Schools http://www.syc-cjs.org/sustainable-high-schools	The Sustainable High Schools project supports high school communities in envisioning, assessing, and acting to improve their school's sustainability. The project empowers schools to act upon their local and global responsibilities to protect and enhance the health and well-being of human and ecological communities.	High school	Online Sustainable High Schools kit, and greenhouse gas calculator, workshops on demand, and ongoing mentorship.	
Smithsonian Center for Education and Museum Studies	http://www.smithsonianeducation.org/educators/lesson_plans/science_tech	Smithsonian educational lesson plans.	K-12	Posted lesson plans and downloadable	<u>Grades K-12</u> Introduction to the Nature Journal

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	ology.html			worksheets.	<u>Grades 3-8</u> Animals and Plants: Partners in Pollination
Toronto Zoo	http://www.torontozoo.com/Schools/TeacherResources.asp	Conservation-based education resources.	K-12	Free teacher training for groups of 10 or more teachers at the zoo or at school or board locations. Tips and Curriculum Resources Available upon writing.	The Urban Outback-Wetlands for Wildlife; Adopt-A-Pond's Wetland Curriculum Resource; Adopt-A-Pond's Turtle Conservation Curriculum Resource; Living With Wildlife Amphibian Voice Newsletter
Trout Unlimited Canada	Yellow Fish Road http://www.yellowfishroad.org/	Elementary activity book focusing on freshwater conservation. Yellow Fish Road program awareness and action guide, and communication resources. Preschool student activity book. Secondary environmental chemistry resources.	2-4, secondary	Downloadable student activity booklets and instructor guides. Must register.	<u>Grades 2-4</u> "I Like It Like That" ; Healthy and Unhealthy Freshwater; How a River becomes Polluted
United Nations Association in Canada	http://www.unac.org/en/index.asp Teachers and Youth http://www.unac.org/learn/world/	Educating about the UN, global issues and Canada's contribution.	Elementary	Three lessons, handouts, and other resources such as sample class charters.	<u>Elementary</u> Canada, the UN and Global Issues
UNESCO	Teaching and Learning for a Sustainable Future http://www.unesco.org/education/tlsf/	Multimedia teacher education program, containing 100 hours (divided into 25 modules) of professional development.	K-12	Online training and workshops available.	Reorienting Education for a Sustainable Future; Sustainable Futures Across the

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					Curriculum
University of Kansas	MonarchWatch http://www.monarchwatch.org/	Information and resources about Monarch butterflies.	K-12	Resources are online.	Challenges to Students; Research Projects
Wildscreen	ARKive Education http://www.arkiveeducation.org/resources.html	Multi-media educational resources each with a scientific focus.	1-12	The educational activities are downloadable.	<u>Grades 1 & 2</u> Variation for Young Children <u>Grades 2 -12</u> Ecosystems; Habitats and Humans <u>Grades 1-12</u> Urban Habitat Activities
World Wildlife Fund Canada	Schools for a Living Planet http://wwf.ca/schools/	An educational program with access to over 30 curriculum-linked, printable in-class activities. Each grade's unit has a unique environmental theme.	3-8	Downloadable student workbooks and some teacher guidebooks.	<u>Grade 3</u> Forests Alive Unit <u>Grade 4</u> Exploring Habitats: The Karner Blue Butterfly Unit <u>Grade 6</u> Diversity of Life Unit
York Environmental Education Consortium	Ontario Ecoschools Program Guides http://ontarioecoschools.org/program_guides/index.html Curriculum Resources http://www.ontarioecoschools.org/curriculum_resources/index.html	Guidelines on how to integrate EcoSchool initiatives into a school, including school ground greening, energy conservation and waste minimization.	1-12	Downloadable guidebooks and resources.	<u>Grades 1-8</u> Waste Minimization; Energy Conservation; Celebrating EcoSchools Festival Guide; The 20/20 Planner <u>Grades 9-12</u> Climate Change