

Natural Science Resources for Teachers	Contact Info.	Description	Target Audience	Aligned with Education Standards	Cost & Availability	Partners
Environment/ Energy Conservation						
Energy and Society- PLT	www.plt.org	This curriculum helps students learn about their relationship with energy and investigates the environmental issues related to energy's role in society. Hands-on and integrates music and dance.	Pre-K-8th grade	Aligned with Education Standards	Available only through workshops.	American Forest Foundation
Energy Efficiency Education Lesson Plans	http://www.bpa.gov/Energy/N/education/ES%5FStar%5FLesson%5FPlan/	Students will learn in these lesson plans how they use energy at home and in school, how to measure their energy use and how to become more energy efficient.	4-7th grade	No	Free- Downloadable from the internet.	Bonneville Power Admin.
Energy for Keeps	http://www.bpa.gov/Energy/N/education/	Contains aids for teaching about electricity from renewables.	6-12th grade	Yes- National standards	Download for \$6.00 or order on-line for between \$12.00 and \$25.00. plus shipping. Price breaks for ordering quantities.	Bonneville Power Admin.
Energy Smart Team Training Manual	http://www.bpa.gov/corporate/KR/ed/energysmarts/homepage.htm	This manual is a teacher's guide to energy conservation activities for elementary and middle school students. It can be used to teach students to monitor their school building for energy consumption. The manual has games to build problem solving and teamwork skills and training in basic electricity and practical skills like meter reading.	Elementary and Middle School	No	Free- Downloadable from the internet.	Bonneville Power Admin.
Geothermal Energy Curriculum	http://www.bpa.gov/corporate/KR/ed/geothermal/homepage.htm	This curriculum addresses renewable energy sources with an in depth study of geothermal energy.	4-8th grade	No	Free- Downloadable from the internet.	Bonneville Power Admin.
High School Level I Energy Audit: Workbook and Training Manual	http://www.bpa.gov/corporate/KR/ed/energyaudit/homepage.shtml	Students learn science while working as members of a student team conducting an energy audit of their high school. An integrated curriculum that emphasizes hands-on learning as students perform a real service to their school.	9-12th grade	No	Free Downloadable from the internet	Bonneville Power Admin.
Hydromania I, II and III	http://www.bpa.gov/corporate/KR/ed/hydromania/homepage.htm	Hydromania is a hands-on, ready to use curriculum exploring nature and energy.	4-8th grade	Yes-Oregon standards	Free- Downloadable from the internet.	Bonneville Power Admin.
Rethinking Recycling- An Oregon Waste Reduction Curriculum	http://www.deq.state.or.us/lq/education/curriculum.htm	This curriculum contains activities and lesson plans on waste reduction.	K-5th grade	Yes	Free- Downloadable from the internet.	DEQ
EPA- Environmental Protection Agency	http://www.epa.gov/kids/	An interactive website for kids. Also curricula and activities on a variety of environmental issues.	K-12th grade	No	Free on the internet	EPA
Environmental Education for Kids (EEK)	Wisconsin Dept. of Natural Resources http://www.dnr.state.wi.us/EEK	An electronic magazine for kids in grade 4-8. Environmental lesson plans and educational resources for teachers.	4-8th grade	No	Free- Downloadable from the internet.	Wisconsin Dept. of Natural Resources
Dr. E's Energy Lab	http://www1.eere.energy.gov/kids/	Dr. E's Energy Lab provides informative and interactive games and links for students and adults alike	K-5th grade	No	Free on the internet	US Dept. of Energy
The resources and websites selected on this list are chosen to provide you with resources. No endorsement of listed sites, products, or information is intended, nor criticism implied of those not mentioned. If you have any questions or comments please contact Jodi Smith at 541-672-4461.						
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Natural Science Resources for Teachers	Contact Info.	Description	Target Audience	Aligned with Education Standards	Cost & Availability	Partners
Fish						
An Educator's Resource Guide for Hatching Salmon and Trout in the Classroom	ODFW-Salmon-Trout Enhancement Program http://www.dfw.state.or.us/STEP/resources-education.asp	Use this guide to quickly locate many of the best materials available for teaching about fish and their aquatic habitats.	K-12th grade	Can contribute to successful lesson development in meeting the standards.	Downloadable at http://www.dfw.state.or.us/STEP/resources-education.asp OR contact your local STEP Biologist at the ODFW	ODFW
Fish Eggs to Fry Hatchings Salmon and Trout in the Classroom	ODFW-Salmon-Trout Enhancement Program http://www.dfw.state.or.us/STEP/resources-education.asp	A manual that provides all the information you need to hatch eggs in the classroom. (Contact sources, incubator design, how to monitor egg development and how to release fry.)	K-12th grade	Yes- Oregon	Downloadable at http://www.dfw.state.or.us/STEP/resources-education.asp OR contact your local STEP Biologist at the ODFW for \$7.00.	ODFW
Salmon Watch	http://www.healthywatersinstitute.org/?q=swcurriculum	This curriculum includes activities that teach the historical, cultural and economic importance of salmon to Oregon, and provides students with the knowledge and skills to understand and examine native wild fish and their habitat, the salmon crisis and wa	6-12th grade	Yes- Oregon	Free- Downloadable from the internet.	Oregon Trout
Up The Creek	http://www.worldfish.org/images-pdfs/Projects/game/guide.pdf	Instructions to a game that demonstrates the positive and negative impacts in the different phases of a salmon's lifecycle.	4-8th grade	No	Free- Downloadable from the internet.	World Fisheries Trust
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Forestry						
Branching Out- The North Carolina Forest Stewardship Activity Guide	www.ces.ncsu.edu/nreos/forest/pll/brantoc.html	This guide helps youth understand the forest and the natural surroundings.	Middle School	No	Free Downloadable from the internet	North Carolina Dept. of Public
Dichotomous Tree Key	http://oregonstate.edu/trees/	Interactive website- A key of conifer trees in the pacific northwest.	5-12th grade	No	Free on the internet- Interactive website	Oregon State University
F.R.E.E. Network Forest Resource Environment Education	www.freenetwork.org	This site is for teachers and students of all grade levels who want to learn more about forests and forest management. Resources include: Teaching resources categorized by topic and grade and downloadable PowerPoint slides.	K-12th grade	No	Free Downloadable from the internet	University of Minnesota
Forest Learn	http://www.oregonforests.org/flow/index.html	Find out information about forestry, forest products and forestry jobs.	K-12th grade	No	Free on the internet- Interactive website	Project FLOW, OSU, OFRI
IP Life of the Forest	http://www.iplifeoftheforest.com/	A classroom teaching kit. The kit includes a set of 10 posters, teaching guides and booklets on trees.	K-6th grade	No	Free- Order on the website or download teaching guide.	International Paper
Oregon Forest Resource Institute- OFRI	http://oregonforests.org	Free resources on Oregon's forests, wildlife and watersheds. Tree identification resource.	K-12th grade	No	Free- Order on the website	
OSU- Wood Products Extension Program	http://owic.oregonstate.edu/teachers.php	Website for teachers that lists publications such as - What a Tree Done Lately and Some Common Products we get from Trees and provides links to presentations.	K-12th grade	No	Free Downloadable from the internet	Oregon State University
Project Learning Tree	www.plt.org	Curriculum to increase students understanding of our complex environments.	Pre-K- 8th grade	Yes- Oregon and National	Available only through workshops	American Forest Foundation
The National Arbor Day Foundation	http://www.arborday.org/kids/teachingyouth.cfm	Resources for teaching youth about trees.	K-12th grade	No	Free downloads. Posters and video costs vary.	National Arbor Day Foundation
Treesearch- US Forest Service	http://www.treesearch.fs.fed.us/	This is an online system for locating publications by research and development Scientists in the USDA Forest Service.		No	Free on the internet	US Forest Service
If Trees Could Talk	http://www.foresthistory.org/Education/	A curriculum in environmental history.	Middle School	Yes- National standards	Free- Downloadable from the internet.	The Forest History Society and Duke University
US Forest Service Curriculum Materials	www.smokeybear.com	Resources contain outlines for wildfire lesson plans and Smokey the Bear activities. Detailed teachers guide on the science and ecology of wildfires.	K-5th grade	No	Free- Downloadable from the internet.	US Forest Service
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Natural Science Resources for Teachers	Contact Info.	Description	Target Audience	Aligned with Education Standards	Cost & Availability	Partners
Water/ Watersheds						
Aquatic Project WILD	www.projectwild.org	Interdisciplinary water-related activities for K-12th grade.	K-12th grade	Yes- National Standards	Available only through workshops	Council for Environmental Education
Kids in the Creek	http://www.bpa.gov/corporate/KR/ed/kidsinthecreek/homepage.htm	These hands-on activities teach the students to determine the health of a stream. Lessons cover water testing, procedures for temperature, dissolved oxygen and pH as well as aquatic insect population.	5-7th grade	No	Free- Downloadable from the internet.	Bonneville Power Admin.
Project WET (Water Education for Teachers)	http://www.projectwet.org/ Contact the project WET coordinator Lin Howell at the Jackson Bottom Wetlands Preserve at 503-681-6429	Project WET is an interdisciplinary wet education program intended to supplement a school's existing curriculum. The program facilitates and promotes the awareness, appreciation, knowledge and stewardship of water resources through development and dissemination.	K-12th grade	Yes- National Standards	Available only through workshops	Project WET International Foundation
Stream Scene- Watersheds, Wildlife and People	http://www.oregon.gov/OPSW/archives/streamscene/streamscene.shtml	A watershed education program. Units include the water cycle, watersheds, uplands, riparian areas, hydrology, water quality and aquatic organisms.	6-12th grade	Yes	\$32.00- Contact your local ODFW or order on-line	ODFW
Water on the Web- Basic Science	www.waterontheweb.org	Offers opportunities for college and high school students to use the aquatic environment and real lake data to explore core science concepts and to work with the state of the art technologies through the website.	9-12th grade	No	Free- on the internet	
Watershed Uplands Scene- Catching the Rain	The Governor's Watershed Enhancement Board Contact for information on how to purchase at (503) 378-3589, Ext. 825	A curriculum guide that provides a model for students to learn fundamental concepts about their local watersheds while developing information gathering, problem solving, group interaction and public presentation skills.	9-12th grade	Yes	\$15.00	
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Natural Science Resources for Teachers	Contact Info.	Description	Target Audience	Aligned with Education Standards	Cost & Availability	Partners
Wildlife						
Amazon Flooded Forest	www.oregonzoo.com	Discover how annual floods affect the animals and people of the Amazon basin.	3-5th grade	See the benchmarks and you	Free- Downloadable from the internet.	Oregon Zoo
Animal Diversity Website	http://animaldiversity.ummz.umich.edu/site/index.html	A searchable encyclopedia of photos, descriptions, sound recordings and other information about individual animal species.	K-12th grade	No	Free- on the internet	University of Michigan, Museum of Zoology National Science Foundation
Bird of Prey Discovery Book	www.oregonzoo.com	A fun way to develop observation skills and a respect for nature.	3-5th grade	See the benchmarks and you	Free- Downloadable from the internet.	Oregon Zoo
Oregon Coast Aquarium	Call 541-867-3474 Ext. 5222	Marine Science Kits- Topics include: sharks, whales, rocky shore invertebrates, seals, sea lions and sea otters. Each kit includes books, videos, shark jaws, tooth models, and a booklet of information and activities for the K-5 classroom.	K-5th grade	No	Kits can be rented for \$35.00 and the cost of shipping. A \$100 refundable deposit is required to borrow or rent the kits.	Oregon Coast Aquarium
Oregon Coast Aquarium	http://www.aquarium.org/edTeacherResources.asp?sid=4	Marine Science Curriculum available for on-line exploration and download. Topics include-seahorses, sharks, jelly fish, frogs, seals and sea lions.	K-5th grade	No	Free- on the internet	Oregon Coast Aquarium
Project WILD	www.projectwild.org Oregon Contact- Virginia Bourdeau at 503-371-7920 or e-mail at mombear.com	Environmental and conservation curriculum that contains a broad range of excellent wildlife activities.	K-12th grade	Yes- National standards	Available only through workshops.	Council for Environmental Education
Steller Cove	Oregon Zoo www.oregonzoo.com	Explore the marine ecosystem off the Pacific Northwest shoreline.	K-2nd grade	See the benchmarks and you	Free- Downloadable from the internet.	Oregon Zoo
The Benchmarks and You	Oregon Zoo www.oregonzoo.com	How to reach the Oregon State benchmarks with zoo resources.	Teachers	Yes	Free- Downloadable from the internet.	Oregon Zoo
ZooScope	www.oregonzoo.com	Teach science inquiry techniques using animals as the focus of investigations. Adaptable for students at any grade level.	All grades	See the benchmarks and you	Free- Downloadable from the internet.	Oregon Zoo
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General Natural Resources						
4-H Natural Science Publications	Contact your local 4-H agent or e-mail to: puborders@oregonstate.edu.	A broad variety of publications and lessons on the following topics. Aquatic education, amphibians, environmental, entomology, fish, forestry, geology, marine science, plants, water, watersheds and waste management.	K-12th grade	No	Costs vary	OSU Extension Service
Hatfield Marine Science Center	http://hmsc.oregonstate.edu/education/index.html Maureen Collson, scheduling Coordinator 541-867-0159 mailto:maureen.collson@oregonstate.edu	Offers materials and programs for educators and students as well as on-site programs at it's Newport, OR facility. The center's focus is marine and estuarine science and resources.	K-12th grade	No	Cost vary by program.	Oregon State University
Map Lessons	http://erg.usgs.gov/isb/pubs/publists/edu.html	Lessons to teach about maps at each grade level.	K-12th grade	No	Free- Downloadable from the internet.	USGS
National Park Service- Oregon Caves Lesson Plans	http://www.nps.gov/orca/education/lessonplan.html	This site provides lesson plans on forests, caves, fossils, water, bats and other natural resource issues.	K-12th grade	Yes- Oregon and National standards	Free- Downloadable from the internet.	National Park Service
Oregon Ag in the Classroom	http://aitc.oregonstate.edu/resources/index.htm	The purpose of Agriculture in the Classroom (AITC) is to help young people gain a better understanding of agriculture, the source of our food and fiber, and its impact on our economy and daily lives. Learning about agriculture and its positive affect on the community helps make today's students well-informed citizens tomorrow. AITC was designed to provide curriculum, training, reference materials and teaching aides to K-12 teachers throughout Oregon.	K-12th grade	Yes- Oregon standards	Free- Downloadable from the internet. Some cost to program materials or return mail cost to loaned materials.	OSU, 4-H
Oregon Geographic Alliance (OGA)	http://geog.pdx.edu/oga/lessons_new.html	Lessons in forestry, geography and natural resources.	K-12th grade	Yes- National standards	Free - Downloadable from the internet.	
Oregon Museum of Science and Industry (OMSI)	www.omsi.edu	The site contains interactive online activities, virtual exhibits and resources.	K-12th grade	No	Free- Interactive site on the internet.	OMSI
The Rainforest Alliance	http://www.rainforest-alliance.org/	The site provides teachers with curricula, presentations, stories and lesson plans. For kids there are coloring pages, stories and animal facts.	K-12th grade	Yes- National standards	Free- Downloadable from the internet.	Rainforest Alliance
Wake Robin- A Habitat for Learning	http://www.longview.k12.wa.us/wr/index.shtml	A virtual tour website of a real location. Utilize the site in the classroom to teach about animals and plants that inhabit the area.	6-12th grade	No	Free interactive website.	Longview School District
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