

Resource Guide for Educators of the Klamath Basin

Materials and Services Available From:




Oregon State University

Klamath Basin Research & Extension Center




OSU Extension Service Vision Statement

Extension leads Oregon State University's outreach mission by engaging with Oregon's people and communities to have positive impacts on community livability, economic vitality, natural resources sustainability, and the health and wellbeing of people. Based on these positive impacts, the OSU Extension Service is recognized as one of America's top-5 Land-Grant University Extension systems.



The Staff of the Oregon State University Extension Service in Klamath County hope that this booklet will prove to be a valuable resource to Klamath Basin Educators as they work toward improving life for all of us.



| Type/Item | Format | Audience (Grade Level) |
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Watershed Resources

| | | |
|---|-------------------------------------|-----------|
| Water Education for Teachers | Workshop * | Educators |
| Klamath Watershed | Workshop/Presentation | Anyone |
| Fish Biology | Workshop/Presentation | Anyone |
| Watershed Wildlife | Workshop/Presentation | Anyone |
| Water Quality | Testing Kit ✓ | 4 – adult |
| Macroinvertebrates | Sampling and ID Kit ✓ | K - 12 |
| Storm Drain, Run Off, and Erosion Program | Classroom/ Field Program & Kit | K - adult |
| Non-point Source Pollution & Prevention | Classroom/ Field Program | 4 - adult |
| Riparian Zones & Wetlands | Classroom/ Field Program & Kit ✓ | K - 12 |
| Thirstin’s Drinking Water Games and Activities | 35 CD-rom set/booklet ✓ | K– 12 |
| Project WET Lessons | Activity Kit ✓ | 3 - adult |
| From Ridges to Rivers, Wetland Wonders, Give Water A Hand ♣ | Curriculum ✓ | 4 - 8 |

♣ = 4-H materials ✓ = check-out materials
*Workshop** = curriculum is only available by attending the workshop

Description

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| Designed for community and formal educators to use with water resource units. A demonstration of classroom and field activities that meet OR education standards. |
| Designed to provide an overview of the Klamath Watershed in terms of geography, river systems, wildlife and how/where you fit into the Klamath Watershed. |
| Discover fish diversity in the Klamath Basin and special adaptations of local fish. |
| Learn about animals that inhabit local riparian zones, wetlands, streams, and lakes. |
| Kit includes testing supplies, directions, and materials needed to complete water quality testing in the classroom or in the field. Rubber boots also available for checkout. |
| Materials included are a Build-a-Macroinvertebrate activity pack, field sampling equipment, ID keys, functional feeding group information, and field data forms. |
| Facilitated program that includes storm drain education presentation, then service learning projects in the community as an educational follow up. |
| Discusses non-point source urban pollution sources, problems and prevention. Potential to tour local ranch that is using non-point source pollution prevention strategies. |
| Activities and presentations to create an understanding of the value and function of riparian zones and wetlands. Field activities can follow using OSU Wetland Kit and an accompanying “Discover Wetlands: Curriculum Guide K-12” for teachers. |
| Class set of interactive CD-rom activities with accompanying paper activity booklet to gain a better understanding of water use, water cycle, and physical properties of water. |
| Activity set for common Project WET lessons on the water cycle, physical properties of water and much more. For Project WET certified educators. |
| Understanding how to maintain water quality and quantity, making a difference in community and the environment, watershed explorations. |

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Video Library Resources

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| Endangered: Lost River Sucker and Short Nose Sucker | Video (DVD) ✓ | 4 - adult |
| Wild About Life | Video (VHS) ✓ | 6 - 12 |
| Water: Sacred & Profound | Video (VHS) ✓ | 4 - adult |
| Healthy Watersheds | Video (VHS) ✓ | 4 - 12 |
| Oregon Field Guide: Willamette NPS Program | Video (VHS) ✓ | 4 - adult |
| After the Rain: Urban Runoff | Video (VHS) ✓ | 4 - adult |
| After the Storm | Video (VHS) ✓ | 4 - adult |
| We All Live Downstream | Video (VHS) ✓ | 6 - 12 |
| Search for Solutions: Understanding Science | Video (DVD) ✓ | 4 - 12 |
| Froglife | Video (VHS) ✓ | K - 6 |
| Circle of Life: Living in Harmony with Nature | Video (VHS) ✓ | 4 - adult |
| Children and Nature | Video (VHS) ✓ | Adults |

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Description

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| A locally produced video addressing the life history, distribution and threats facing these endanger species. Targets Klamath Basin geography and natural history. |
| An instructional program about biodiversity for middle and high school students from the USFWS. Docu-drama about 4 teenagers who discover the value of life on earth. |
| Explores the sacred nature of the gift that envelopes the lives of every living thing |
| Teaches kids how to analyze and care for their watersheds (OSU Extension). |
| Identifies non-point source pollution as a major water quality issue & how the Willamette has been affected and the prevention measures that have been put in place. |
| Explores the importance of water, the pressures our cities are placing on this Resource, and ways individuals can protect their local drinking water (OSU Extension). |
| Case studies focusing on the interconnections between water supply, water quality, and economic vitality and quality of life in our communities (USEPA). |
| Examines a waterway that struggles to survive under pressure from non-point source pollutants, and describes how local citizens and government are making changes (OSU) |
| Takes students on a fascinating journey exploring the nature and process of scientific discovery. 10 episode video series from National Science Teachers Association. |
| Teaches kids, through frog puppets, about non-point source pollution and prevention. A Production of the Water Environment Federation. |
| A production of the Temperate Forest Foundation that addresses the balance between sound stewardship, dynamic thinking, quality of life, and sustainable development. |
| Dr. Jane Goodall believes that parents and other mentors of children should guide them to make meaningful connections with the natural world. She promotes awakening a sense of wonder. |

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Natural Resources - General

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|---|--------------------------------------|--------|
| Earth Connections ♣ | Curriculum ✓ | K - 3 |
| E.M. Power (Environmental Management) ♣ | Curriculum ✓ | 6 - 7 |
| Recycling Adventures ♣ | Curriculum ✓ | K - 3 |
| Junior Wildlife Stewards ♣ | Community Volunteers & Curriculum | K - 12 |
| Forest Products Kit | Activity Kit ✓ | 4 - 12 |
| Forest Monitoring Kit | Equipment Kit ✓ | 6 - 12 |
| Forest Ecology Trunk | Resource Trunk ✓ | 4 - 12 |
| Klamath Basin Birding Trail Education Kits | Resource Kits ✓ | K-12 |

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Description

Major concepts focusing on the interdependence of the Earth's soil, water, and air are taught through simple, inexpensive, and fun activities.

Teaches waste management concern, such as making informed decisions, developing creative solutions.

Fun and creative activities including the 4 R's of waste management concepts: reduce, reuse, reject, recycle.

Transform local school-ground unused areas into outdoor classrooms, with landscaping and wildlife habitats, while learning about water cycles, food chains, and biodiversity. Program works with trained community volunteers - 4-H Wildlife Stewards.

Curriculum and materials that demonstrate the vast nature of products from trees.

Kit that allows students to measure trees using rulers, logger diameter tapes, increment borers, clinometers, an increment borer core sampling kit, and instructions for all tools.

Collection of maps, posters, games, videos, tree cookie kit, computer resources, books, and activities related to the ecology of forests in the Pacific Northwest.

A bird unit in a kit! Includes: teacher's guide/ curriculum, binoculars, CDs, student research kits, DVD's, field guides, clipboards and more!

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Natural Resources - General (Continued)

| | | |
|--------------------|---------------------|--------|
| Maps and Compasses | Materials ✓ | All |
| Weather Kit | Field Equipment ✓ | 6 - 12 |
| Soil Kit | Testing Equipment ✓ | 6 - 12 |

Animals, Agriculture, Horticulture

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|--------------------------------------|------------------------|-------|
| Agriculture In The Classroom ♣ | Curriculum ✓ | 3 - 6 |
| Explore The World Of Small Animals ♣ | Curriculum ✓ | K - 3 |
| The Incredible Egg ♣ | Kit / curriculum ✓ | 4 - 5 |
| Master Gardeners | Classroom Presentation | K - 3 |
| Rabbit Production | Book ✓ | All |

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Description

A wide range of topographic maps, watershed maps, city maps etc. and a class set of compasses and instructions. Instructor is available for lessons and techniques training.

Field equipment for weather monitoring including thermometers, wind meters, sling psychrometers and instructions.

Field equipment for soil testing including chemical testing kit, soil thermometers, soil texture charts, soil sampling tubes and instructions.

Various lesson plans in which youth will gain a better understanding of agriculture, the source of our food and fiber, and their impact on our economy and daily lives.

Gain an appreciation & understanding of animals' well-being, apply science skills, gain personal development. Includes health/nutrition/care of small animals.

From Egg to Chick – embryology, math, science.

OSU Master Gardener volunteers give demonstrations, using interactive activities such as planting seeds and bulbs.

OSU Rabbit Research Center developed this resource book to fulfill the needs of both the experienced rabbit raiser and the beginner.

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Health & Nutrition Resources

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|---|------------------------|---|--------|
| Nutri-Kids: ♣ | Curriculum Kits | ✓ | |
| - Visit Goodeater Farm | | | K |
| - Visit the Zoo | | | 1 |
| - Create a Rainbow Garden | | | 2 |
| - Go Around the World | | | 3 |
| Kitchen Science ♣ | Curriculum | ✓ | K - 7 |
| USDA Team Nutrition | Curriculum Kits | ✓ | |
| - Food Time | | | 1 - 2 |
| - Food Works | | | 3 - 5 |
| - Yourself | | | 6 - 8 |
| Start Smart Eating & Reading | Curriculum Kit | ✓ | K - 2 |
| Tickle Your Appetite | Curriculum Kit | ✓ | Pre K |
| Fight Bac | Curriculum Kits | ✓ | K - 6 |
| Felt Food Pyramid and | Activity Kit & Display | ✓ | K - 12 |
| Glo-Germs | Resource Kit | ✓ | K - 12 |

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Description

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|---|
| Workbooks/Activity books. |
| Identify food groups, where food comes from, safe food handling, healthy eating habits. |
| Basic nutrition, appreciating food variety, and food preparation and preservation. |
| Healthy foods, nutrition, and advertising. |
| Research life in other countries. |
| Support selected food and nutrition concepts, make science accessible and fun; and encourage discovery-based learning; link science with cooking, reading, & nutrition. |
| Each includes a video by kids to reinforce lesson plans and activity workbooks. |
| Making healthy food choices using the food pyramid as a guide. |
| Healthy eating choices, how food grows, how food affects our bodies, label reading, eating a variety of foods, and avoiding too much fat and sugar. |
| Relationship between healthy eating and physical activity - students complete a personal assessment, set new goals, and complete a media project on healthy choices. |
| Four modules including story books, lesson plans, activity sheets, and parent newsletters designed to help children discover the importance of breakfast. |
| Video and music tape teach pre-schoolers that trying new foods is fun. |
| Food safety education materials targeted to various age groups. Bacteria puppet and script for grades K-2; games and video for grades 3-6. |
| Large felt board and life-sized velcro models for food group categorization games. |
| Black light box & UV disclosing lotion demonstrate hand washing success. |

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Family & Community Resources

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|---------------------------------------|---------------------------|--------|
| Talking With TJ: ♣ | Curriculum Kits ✓ | 2 - 4 |
| - Series 1 | | |
| - Series 2 | | |
| Kaleidoscope: ♣ | Curriculum / workbooks ✓ | K - 3 |
| - Just Outside the Door | | |
| - Family Celebrations | | |
| Going Places, Making Choices ♣ | Curriculum ✓ | 9 - 12 |
| Gifts of Gold ♣ | Curriculum ✓ | K - 3 |
| A Palette of Fun ♣ | Curriculum ✓ | K - 6 |
| After School Club ♣ | Curriculum ✓ | K - 5 |
| Home Alone and Prepared (HAP) | Video (VHS) & work-book ✓ | |

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Description

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|---|
| Gain social skills needed to live in a diverse society. |
| Six lessons focusing on skills of teamwork, planning, appreciating and accepting differences among people. |
| Six lessons on how to resolve conflicts – anger management, respecting viewpoints, effective communication. |
| Learn more about the world around you. |
| Water, plants, other people, insects, how things work, appropriate clothing for outside. |
| People in your own country and in other countries, holidays, long-ago happenings. |
| These units focus on transportation and mobility issues. These materials use transportation to explore environmental sciences, culture, and value systems. |
| Through 1 common international food – corn – learn about agriculture, literacy, nutrition, diversity, science, art, communications, and horticulture. |
| Over 35 art activities connect the art experience to careers, culture, science, technology, and problem solving. |
| Activities are designed to introduce learning experiences that foster a healthy self-concept and encourage the development of physical, decision-making, and social skills. Includes weekly themes; has activities for 2 years. |
| A self-learning program, prepares children to be safe and confident. A video and workbook provides parents with the information to teach, reinforce, and extend their child's self-care skills. |

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Animal Learning Kits

| | | |
|-----------------------------|----------------------|-------------|
| Dog Learning Kit | ♣ Kit / curriculum ✓ | 4th to 12th |
| Horse Learning Kit | ♣ Kit / curriculum ✓ | 4th to 12th |
| Swine Learning Kit | ♣ Kit / curriculum ✓ | 4th to 12th |
| Sheep Learning Kit | ♣ Kit / curriculum ✓ | 4th to 12th |
| Rabbit Learning Kit | ♣ Kit / curriculum ✓ | 4th to 12th |
| Beef Learning Kit | ♣ Kit / curriculum ✓ | 4th to 12th |
| Poultry Learning Kit | ♣ Kit / curriculum ✓ | 4th to 12th |

For more information or to request materials, please contact Lori Fernlund, 883-7131.
 OSU Extension Service—Klamath County

Classroom and Field Gear—Natural Resources

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|--|--------------------------|---|--------------|
| Compasses (31) | With teaching material | ✓ | 4th to Adult |
| Binoculars (20) | 7 x 35 w/ cases | ✓ | 3rd to 12th |
| Rubber Boots (25) | Knee High | ✓ | 3rd to Adult |
| Owl Pellet Dissection Equipment | Tools and Specimens | ✓ | 4th to 12th |
| Kick Net (Seine) | Stream Size | ✓ | 4th to 12th |
| Watershed Protection Magazines | Class sets | ✓ | 4th to 12th |
| Macroinvertebrate Collection | Sampling and ID supplies | ✓ | 4th to 12th |



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Most resources are free of charge.
Additional publications and resources are available.

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