



Environmental Education Resource List

This document contains regional, national, and international environmental education resources for teachers in King County and beyond. The resources range from worksheets to multiweek units on a variety of topics. This is not an exhaustive list, but a selection of excellent resources from a variety of sources. The goal of this document is to assist educators in teaching environmental topics by reducing the time required to research and prepare lessons.

How to use this document

The resources are organized by grade level from kindergarten to 8th grade. Within each grade level, the resources are organized by topic. For each resource, the following information is included: the publisher or source, the grade level range, a link to the resource, and a short description. A green flag in the margin indicates that a resource is specific to Washington State.

Guide to Acronyms

DOE: Department of Ecology
DNR: Department of Natural Resources
EPA: Environmental Protection Agency
FISH: Friends of the Issaquah Salmon Hatchery
GLOBE: Global Learning and Observations to Benefit the Environment
LLTK: Long Live The Kings
NEED: National Energy Education Development
NOAA: National Oceanic and Atmospheric Administration
NPS: National Park Service
NWF: National Wildlife Foundation
PEI: Pacific Education Institute
SIS: Salmon in the Schools
USGS: United States Geologic Survey
WISC: Washington Invasive Species Council
WGS: Washington Geologic Survey
WNPS: Washington Native Plant Society
WWF: World Wildlife Foundation



Click here to go directly to your grade level

[Kindergarten](#)

[1st Grade](#)

[2nd Grade](#)

[3rd Grade](#)

[4th Grade](#)

[5th Grade](#)

[6th Grade](#)

[7th Grade](#)

[8th Grade](#)

Kindergarten

Wildlife



Wild Washington: [Washington Wildlife](#) (K-2): ELA lesson that teaches students what to do if they find a baby animal



WNPS: [Mystery Animal](#) (K): Activity to introduce students to the animals found in Seattle urban habitat areas



WNPS: [Animals, Animals](#) (K): Role-playing activity to introduce students to the animals found in Seattle urban habitat areas



WNPS: [Bird Beak Buffet](#) (K): Activity that introduces students to the concept that species characteristics are related to their survival



WNPS: [Bird Observation Walk](#) (K): Guided walk to observe birds in different ways



Eastside Audubon: [Bird Discovery](#) (K-8): Unit of lessons and activities for learning about birds of the Pacific Northwest. Companion to the [Bird Discovery Box](#), which may be borrowed from Eastside Audubon.

NWF: [Bats: Maligned or Malicious?](#) (K-2): Lesson plan for discussing misconceptions about bats

NWF: [Tricky Tracks](#) (K-4): Lesson plan for teaching students how to identify and interpret wildlife tracks

NWF: [Links in a Food Chain](#) (K-4): Activity for teaching about food chains

NWF: [Call of the Wild](#) (K-4): Lesson plan and activity for teaching about the frog life cycle

NWF: [Massive Migrations](#) (K-4): Lesson plan and activity for teaching about bird migrations

NWF: [Pollinator's Journey](#) (K-4): Lesson plan and activity for teaching about the role of pollinators and pollinator conservation

NWF: [Butterfly Life Cycle](#) (K-2): Lesson plan and activity for teaching about butterfly habitat and life cycle

Habitats



PEI: [What lives on my school ground? Schoolyard Investigation](#) (K): Lesson plans for learning about living and nonliving components of a habitat and an activity to learn about how sunlight affects the school habitat

GLOBE: [The Mystery of the Missing Hummingbirds](#) (K-4): Story and activities about seasonal changes to habitats



Nature Vision: [Ecosystems](#) (K-2): Packet of student activities focusing on animal habitats, salmon and amphibians, and healthy soil, all in relation to water resources



WNPS: [Everybody Needs a Home](#) (K): Story and activity to teach about animal homes and outdoor etiquette



WNPS: [Homes in the Habitat Walk](#) (K): Guided walk and activity looking at wildlife homes of all kinds and how to practice outdoor etiquette



WNPS: [Nature Detective Discovery](#) (K): Activity for students to use their senses to observe different natural objects



WNPS: [Nature Detective Walk](#) (K): Guided walk activity where students use their senses to observe native plants and animals

NWF: [What's Your Habitat?](#) (K-4): Lesson plan for teaching about the basic needs of humans and wildlife

NWF: [Habitat Web](#) (K-6): Activity for teaching about the connections between organisms in an ecosystem

Salmon



Wild Washington: [How to Grow Fish](#) (K-5): Lesson, readings, and video about fish hatcheries



Wild Washington: [Redband Trout and You](#) (K-5): Lesson and activities about redband trout ecology



Since Time Immemorial: [Honoring the Salmon](#) (K-3): Lesson plans about the role of salmon in the cultures of Northwest Tribes



FISH: [Salmon in the Classroom Educator's Guide](#) (K-8): Seven units of lessons and activities covering salmon biology and ecology. Designed to prepare students for a hatchery field trip, but can work as a stand-alone unit.



SIS Seattle: [Habitat Go Fish](#) (K-2): Game that teaches students about the components of healthy salmon habitat



SIS Seattle: [Guided Imagery](#) (K-2): Story about the life of a salmon in the wild

Plants & Forests



PEI: [Humans and Wildfires](#) (K): Lesson plans for learning about trees, effects of wildfires, and wildfire prevention



Nature Vision: [Invasive Plants](#) (K-2): Packet of student activities focusing on the roles of native and invasive plants within an ecosystem



WSU/Master Gardeners of King County: [Leaf Exploration](#) (K-3): Set of activities focused on observing leaves



WSU/Master Gardeners of King County: [Seeds Are Promises to Sprout](#) (K-3): Set of activities focused on seed structure and germination

Water

GLOBE: [Discoveries at Willow Creek](#) (K-4): A storybook and activities about water quality and scientific observations



WSU/Master Gardeners of King County: [A Walk in the Rain](#) (K-2): Set of activities focusing on watersheds and the water cycle



Nature Vision: [Ecological Impacts](#) (K-2): Packet of student activities focusing on watersheds, stormwater, river and Puget Sound ecosystems, and pollution



Nature Vision: [Water Quality](#) (K-2): Packet of student activities focusing on common sources of water pollution



Nature Vision: [Human Systems](#) (K-2): Packet of student activities focusing on wastewater treatment



Nature Vision: [Watersheds](#) (K-2): Packet of student activities focusing on watersheds and the water cycle



Nature Vision: [Humans & Water](#) (K-2): Packet of student activities focusing on the local water supply and water conservation

EPA: [Exploring your Watershed](#) (K-6): Lesson plans for learning about watersheds

Oceans



WA DOE: [The Estuary Guide](#) (K-3): Lessons and activities focused on estuary organisms and ecology. Designed to accompany a field trip, but contains stand-alone activities.

NWF: [Wonderful Whales](#) (K-4): Activities focused on whale adaptations

NWF: [The Wheel of Trouble](#) (K-2): Activity that shows why sea turtles are endangered

NOAA: [An Educator's Guide to Marine Debris](#) (K-8): Lesson plans for learning about trash and pollution

Weather

GLOBE: [What's Up in the Atmosphere? Exploring Colors of the Sky](#) (K-4): Story and activities about air pollution

GLOBE: [Do You Know That Clouds Have Names?](#) (K-4): Story and activities about the different types of clouds

GLOBE: [Atmosphere](#) (K-8): Set of activities observing and measuring atmospheric conditions

NOAA: [Melts in your bag, not in your hand](#) (K-3): Activity that shows the transfer of heat through radiation

NOAA: [It's the "Rain", Man](#) (K-3): Activity in which students make rain gauges and learn that rainfall varies from location to location

NOAA: [Heavy Air](#) (K-5): Activity that demonstrates that air has weight

NOAA: [A Pressing Engagement](#) (K-5): Activity that demonstrates atmospheric pressure

NOAA: [Canned Heat](#) (K-5): Activity that shows that light and dark colored objects absorb the Sun's radiation at different rates

NOAA: [What-a-Cycle](#) (K-5): Activity that shows the many different routes water can take in its path through the water cycle

Climate

GLOBE: [What in the World Is Happening to Our Climate?](#) (K-4): Story and activities about human effects on climate and the impacts of climate change around the world

GLOBE: [All About Earth: Our World on Stage](#) (K-4): Story and activities about how Earth's processes are interconnected

GLOBE: [Earth as a System](#) (K-8): Activities to learn about global systems, climate change, and phenology

Food, Gardens, & Soils



PEI: [Food Waste](#) (K): Lesson plans about reducing food waste

WWF: [Food Waste Warriors](#) (K-8): Lessons, activities, and resources for learning about food waste



Gonzaga: [Where Does Food Come From?](#) (K-1): Lesson about where different types of food come from, why nutrition is important, and how to grow food

GLOBE: [The Scoop on Soils](#) (K-4): Story and activities for learning about soil composition and soil ecology

1st Grade

Wildlife



Wild Washington: [Washington Wildlife](#) (K-2): ELA lesson that teaches students what to do if they find a baby animal



WNPS: [Creepy Crawly Story](#) (1): Story and activity that introduces students to the tiny wildlife that live in habitat areas



WNPS: [Creepy Crawly Exploration](#) (1): Activity in which students collect and try to identify invertebrates



Eastside Audubon: [Bird Discovery](#) (K-8): Unit of lessons and activities for learning about birds of the Pacific Northwest. Companion to the [Bird Discovery Box](#), which may be borrowed from Eastside Audubon.

NWF: [Bats: Maligned or Malicious?](#) (K-2): Lesson plan for discussing misconceptions about bats

NWF: [Tricky Tracks](#) (K-4): Lesson plan for teaching students how to identify and interpret wildlife tracks

NWF: [Links in a Food Chain](#) (K-4): Activity for teaching about food chains

NWF: [Call of the Wild](#) (K-4): Lesson plan and activity for teaching about the frog life cycle

NWF: [Massive Migrations](#) (K-4): Lesson plan and activity for teaching about bird migrations

NWF: [Pollinator's Journey](#) (K-4): Lesson plan and activity for teaching about the role of pollinators and pollinator conservation

NWF: [Butterfly Life Cycle](#) (K-2): Lesson plan and activity for teaching about butterfly habitat and life cycle

Habitats

GLOBE: [The Mystery of the Missing Hummingbirds](#) (K-4): Story and activities about seasonal changes to habitats



Nature Vision: [Ecosystems](#) (K-2): Packet of student activities focusing on animal habitats, salmon and amphibians, and healthy soil, all in relation to water resources



WNPS: [The Magic Glasses](#) (1): Story and activity to teach outdoor etiquette



WNPS: [Magnifier Walk](#) (1): Exploratory walk for students to practice their observation skills using magnifiers

NWF: [What's Your Habitat?](#) (K-4): Lesson plan for teaching about the basic needs of humans and wildlife

NWF: [Habitat Web](#) (K-6): Activity for teaching about the connections between organisms in an ecosystem

Salmon



Wild Washington: [How to Grow Fish](#) (K-5): Lesson, readings, and video about fish hatcheries



Wild Washington: [Redband Trout and You](#) (K-5): Lesson and activities about redband trout ecology



LLTK: [Steelhead Anatomy](#) (1-5): Lesson plan and worksheet for learning about salmonid anatomy



Since Time Immemorial: [Honoring the Salmon](#) (K-3): Lesson plans about the role of salmon in the cultures of Northwest Tribes



FISH: [Salmon in the Classroom Educator's Guide](#) (K-8): Seven units of lessons and activities covering salmon biology and ecology. Designed to prepare students for a hatchery field trip, but can work as a stand-alone unit.



SIS Seattle: [Habitat Go Fish](#) (K-2): Game that teaches students about the components of healthy salmon habitat



SIS Seattle: [Guided Imagery](#) (K-2): Story about the life of a salmon in the wild

Plants & Forests



PEI: [Getting to Know a Tree Schoolyard Investigation](#) (1): Lessons and activities to learn about the parts of a tree and making scientific observations



WNPS: [Bark & Leaf Rubbings](#) (1): Activity that teaches students about the different parts of a plant and different characteristics of different plants



WNPS: [Plants & Animals Same-Different](#) (1): Activity where students consider the commonalities and differences between plants and animals



WNPS: [Maple Seed Mix-Up](#) (1): Interactive game that helps students understand the basic environmental conditions for seed germination



WNPS: [Plant & Animal Interactions](#) (1): Activity that explores the relationship between plants and animals and how local wildlife use local plants



Nature Vision: [Invasive Plants](#) (K-2): Packet of student activities focusing on the roles of native and invasive plants within an ecosystem



WSU/Master Gardeners of King County: [Leaf Exploration](#) (K-3): Set of activities focused on observing leaves



WSU/Master Gardeners of King County: [Seeds Are Promises to Sprout](#) (K-3): Set of activities focused on seed structure and germination

Food, Gardens, & Soils

WWF: [Food Waste Warriors](#) (K-8): Lessons, activities, and resources for learning about food waste



Gonzaga: [Where Does Food Come From?](#) (K-1): Lesson about where different types of food come from, why nutrition is important, and how to grow food

GLOBE: [The Scoop on Soils](#) (K-4): Story and activities for learning about soil composition and soil ecology

Water

GLOBE: [Discoveries at Willow Creek](#) (K-4): A storybook and activities about water quality and scientific observations



WSU/Master Gardeners of King County: [A Walk in the Rain](#) (K-2): Set of activities focusing on watersheds and the water cycle



Nature Vision: [Ecological Impacts](#) (K-2): Packet of student activities focusing on watersheds, stormwater, river and Puget Sound ecosystems, and pollution



Nature Vision: [Water Quality](#) (K-2): Packet of student activities focusing on common sources of water pollution



Nature Vision: [Human Systems](#) (K-2): Packet of student activities focusing on wastewater treatment



Nature Vision: [Watersheds](#) (K-2): Packet of student activities focusing on watersheds and the water cycle



Nature Vision: [Humans & Water](#) (K-2): Packet of student activities focusing on the local water supply and water conservation

EPA: [Exploring your Watershed](#) (K-6): Lesson plans for learning about watersheds

Oceans



WA DOE: [The Estuary Guide](#) (K-3): Lessons and activities focused on estuary organisms and ecology. Designed to accompany a field trip, but contains stand-alone activities.

NWF: [Wonderful Whales](#) (K-4): Activities focused on whale adaptations

NWF: [The Wheel of Trouble](#) (K-2): Activity that shows why sea turtles are endangered

NOAA: [An Educator's Guide to Marine Debris](#) (K-8): Lesson plans for learning about trash and pollution

Weather

GLOBE: [What's Up in the Atmosphere? Exploring Colors of the Sky](#) (K-4): Story and activities about air pollution

GLOBE: [Do You Know That Clouds Have Names?](#) (K-4): Story and activities about the different types of clouds

GLOBE: [Atmosphere](#) (K-8): Set of activities and labs observing and measuring atmospheric conditions

NOAA: [Melts in your bag, not in your hand](#) (K-3): Activity that shows the transfer of heat through radiation

NOAA: [It's the "Rain", Man](#) (K-3): Activity in which students make rain gauges and learn that rainfall varies from location to location

NOAA: [Heavy Air](#) (K-5): Activity that demonstrates that air has weight

NOAA: [A Pressing Engagement](#) (K-5): Activity that demonstrates atmospheric pressure

NOAA: [Canned Heat](#) (K-5): Activity that shows that light and dark colored objects absorb the Sun's radiation at different rates

NOAA: [What-a-Cycle](#) (K-5): Activity that shows the many different routes water can take in its path through the water cycle

Climate

GLOBE: [What in the World Is Happening to Our Climate?](#) (K-4): Story and activities about human effects on climate and the impacts of climate change around the world

GLOBE: [All About Earth: Our World on Stage](#) (K-4): Story and activities about how Earth's processes are interconnected

GLOBE: [Earth as a System](#) (K-8): Activities and labs to learn about global systems, climate change, and phenology

2nd Grade

Wildlife



Wild Washington: [Washington Wildlife](#) (K-2): ELA lesson that teaches students what to do if they find a baby animal



Seattle Aquarium: [Web of Life](#) (2-8): Activity to demonstrate how animals are connected through food webs



Eastside Audubon: [Bird Discovery](#) (K-8): Unit of lessons and activities for learning about birds of the Pacific Northwest. Companion to the [Bird Discovery Box](#), which may be borrowed from Eastside Audubon.

NWF: [Bats: Maligned or Malicious?](#) (K-2): Lesson plan for discussing misconceptions about bats

NWF: [Tricky Tracks](#) (K-4): Lesson plan for teaching students how to identify and interpret wildlife tracks

NWF: [Links in a Food Chain](#) (K-4): Activity for teaching about food chains

NWF: [Call of the Wild](#) (K-4): Lesson plan and activity for teaching about the frog life cycle

NWF: [Massive Migrations](#) (K-4): Lesson plan and activity for teaching about bird migrations

NWF: [Pollinator's Journey](#) (K-4): Lesson plan and activity for teaching about the role of pollinators and pollinator conservation

NWF: [Butterfly Life Cycle](#) (K-2): Lesson plan and activity for teaching about butterfly habitat and life cycle

Habitats



PEI: [Toad Abode Schoolyard Investigation](#) (2) English, Spanish: Lesson plans and activity incorporating design principles to create a shelter for animals



PEI: [Wetland Habitat](#) (2): Unit of lessons and activities about wetland habitats and the plants and animals that live there

GLOBE: [The Mystery of the Missing Hummingbirds](#) (K-4): Story and activities about seasonal changes to habitats



Nature Vision: [Ecosystems](#) (K-2): Packet of student activities focusing on animal habitats, salmon and amphibians, and healthy soil, all in relation to water resources

NWF: [What's Your Habitat?](#) (K-4): Lesson plan for teaching about the basic needs of humans and wildlife

NWF: [Habitat Web](#) (K-6): Activity for teaching about the connections between organisms in an ecosystem

Salmon



Wild Washington: [How to Grow Fish](#) (K-5): Lesson, readings, and video about fish hatcheries



Wild Washington: [Redband Trout and You](#) (K-5): Lesson and activities about redband trout ecology



LLTK: [Steelhead Anatomy](#) (1-5): Lesson plan and worksheet for learning about salmonid anatomy



LLTK: [Steelhead Survival Game](#) (2-6): Math activity (multi-digit subtraction) and game to learn about the dangers that migrating salmonids face



Since Time Immemorial: [Honoring the Salmon](#) (K-3): Lesson plans about the role of salmon in the cultures of Northwest Tribes



FISH: [Salmon in the Classroom Educator's Guide](#) (K-8): Seven units of lessons and activities covering salmon biology and ecology. Designed to prepare students for a hatchery field trip, but can work as a stand-alone unit.



SIS Seattle: [Habitat Go Fish](#) (K-2): Game that teaches students about the components of healthy salmon habitat



SIS Seattle: [Guided Imagery](#) (K-2): Story about the life of a salmon in the wild

Plants & Forests



PEI: [The Needs of Trees](#) (2): Unit of lessons and activities focusing on what trees need to grow



PEI: [Pollinators](#) (2): Unit of lessons on the species that distribute seeds and pollinate plants in Washington State ecosystems



WNPS: [Dead or Alive](#) (2): Activity that helps students learn how to distinguish dormant and dead plants



WNPS: [Meet Douglas Fir](#) (2): Stories, images, and discussion questions to introduce students to a common native plant



WNPS: [Meet Bigleaf Maple](#) (2): Stories, images, and discussion questions to introduce students to a common native plant



WNPS: [Evergreen and Deciduous Leaves](#) (2): Activity for students to learn about the differences between types of leaves



WNPS: [Evergreen and Deciduous Walk](#) (2): Guided walk for students to sort plants by characteristics and identify evergreen and deciduous plants



WNPS: [Leaf Discovery Drawing](#) (2): Activity where students create leaf rubbings and describe leaf characteristics



WNPS: [Leaf Discovery Walk I](#) (2): Guided walk where students practice observing leaf characteristics and identifying plants



WNPS: [Leaf Discovery Walk II](#) (2): Guided walk where students use their leaf rubbings to find the matching plants



WNPS: [Meet My Plant](#) (2): Activity for students to observe and research and plant and present their work



Nature Vision: [Invasive Plants](#) (K-2): Packet of student activities focusing on the roles of native and invasive plants within an ecosystem



WSU/Master Gardeners of King County: [Leaf Exploration](#) (K-3): Set of activities focused on observing leaves



WSU/Master Gardeners of King County: [Seeds Are Promises to Sprout](#) (K-3): Set of activities focused on seed structure and germination

Water

GLOBE: [Discoveries at Willow Creek](#) (K-4): A storybook and activities about water quality and scientific observations

GLOBE: [Hydrosphere](#) (2-8): Activities and labs to learn about water quality, conducting testing, and gathering data



WSU/Master Gardeners of King County: [A Walk in the Rain](#) (K-2): Set of activities focusing on watersheds and the water cycle



Nature Vision: [Ecological Impacts](#) (K-2): Packet of student activities focusing on watersheds, stormwater, river and Puget Sound ecosystems, and pollution



Nature Vision: [Water Quality](#) (K-2): Packet of student activities focusing on common sources of water pollution



Nature Vision: [Human Systems](#) (K-2): Packet of student activities focusing on wastewater treatment



Nature Vision: [Watersheds](#) (K-2): Packet of student activities focusing on watersheds and the water cycle



Nature Vision: [Humans & Water](#) (K-2): Packet of student activities focusing on the local water supply and water conservation

EPA: [Exploring your Watershed](#) (K-6): Lesson plans for learning about watersheds

Oceans



WA DOE: [The Estuary Guide](#) (K-3): Lessons and activities focused on estuary organisms and ecology. Designed to accompany a field trip, but contains stand-alone activities.



PEI: [Coastal Hazards: Erosion](#) (2): Lesson plans for teaching about weathering, erosion, and erosion control methods

NWF: [Wonderful Whales](#) (K-4): Activities focused on whale adaptations

NWF: [The Wheel of Trouble](#) (K-2): Activity that shows why sea turtles are endangered

NOAA: [An Educator's Guide to Marine Debris](#) (K-8): Lesson plans for learning about trash and pollution

Weather

GLOBE: [What's Up in the Atmosphere? Exploring Colors of the Sky](#) (K-4): Story and activities about air pollution

GLOBE: [Do You Know That Clouds Have Names?](#) (K-4): Story and activities about the different types of clouds

GLOBE: [Atmosphere](#) (K-8): Set of activities and labs observing and measuring atmospheric conditions

NOAA: [Melts in your bag, not in your hand](#) (K-3): Activity that shows the transfer of heat through radiation

NOAA: [It's the "Rain", Man](#) (K-3): Activity in which students make rain gauges and learn that rainfall varies from location to location


NOAA: [Heavy Air](#) (K-5): Activity that demonstrates that air has weight

NOAA: [A Pressing Engagement](#) (K-5): Activity that demonstrates atmospheric pressure

NOAA: [Canned Heat](#) (K-5): Activity that shows that light and dark colored objects absorb the Sun's radiation at different rates

NOAA: [What-a-Cycle](#) (K-5): Activity that shows the many different routes water can take in its path through the water cycle

Climate

 Gonzaga: [Climate Forecasters](#) (2-3): Lesson plan for teaching about the difference between climate and weather

GLOBE: [What in the World Is Happening to Our Climate?](#) (K-4): Story and activities about human effects on climate and the impacts of climate change around the world

GLOBE: [All About Earth: Our World on Stage](#) (K-4): Story and activities about how Earth's processes are interconnected

GLOBE: [Earth as a System](#) (K-8): Activities and labs to learn about global systems, climate change, and phenology

Food, Gardens, & Soils

WWF: [Food Waste Warriors](#) (K-8): Lessons, activities, and resources for learning about food waste

GLOBE: [The Scoop on Soils](#) (K-4): Story and activities for learning about soil composition and soil ecology

GLOBE: [Pedosphere](#) (2-8): Activities and labs for learning about soil morphology and properties

3rd Grade

Wildlife



Wild Washington: [Beavers, Nature's Engineers](#) (3-5): Lesson plans about beaver dams and their effects on surrounding ecosystems



Wild Washington: [Herps in Washington](#) (3-5): Lesson plan and activities about reptile and amphibian diversity



Wild Washington: [A Family Pack](#) (3-5): Lesson plan and interactive exhibit about wolf ecology and the cultural perception of wolves



Wild Washington: [What Specialized Teeth You Have](#) (3-5) English, with supplemental materials in Spanish: Lesson plan focusing on carnivore adaptations, with an interactive tour of different types of skulls



Wild Washington: [Wildlife Life Cycles](#) (3-5) English, with supplemental materials in Spanish: Lesson plan about adaptations of baby animals and the phases of animal lifecycles

WWF: [Tigers and Forests](#) (3-5): Multidisciplinary lessons and activities about tiger ecology and conservation

WWF: [Sea Turtles and Oceans](#) (3-5): Multidisciplinary lessons and activities about sea turtle ecology and conservation

WWF: [Polar Bears and Climate Change](#) (3-5): Multidisciplinary lessons and activities about climate change and polar bear conservation

WWF: [Freshwater Dolphins and Conserving Freshwater Resources](#) (3-5): Multidisciplinary lessons and activities about freshwater dolphin ecology and conservation

WWF: [Elephants](#) (3-5): Multidisciplinary lessons and activities about elephant conservation

WWF: [Monarchs](#) (3-5): Multidisciplinary lessons and activities about monarch butterfly habitat and lifecycles



Eastside Audubon: [Bird Discovery](#) (K-8): Unit of lessons and activities for learning about birds of the Pacific Northwest. Companion to the [Bird Discovery Box](#), which may be borrowed from Eastside Audubon.

Wildlife cont.



WSU/Master Gardeners of King County: [Spiders in the Garden](#) (3-5): Set of activities focused on observing common spiders



WSU/Master Gardeners of King County: [The Marvelous Mason Bee](#) (3-5): Set of activities focused on mason bee lifecycle and habitat

Ecology & Ecosystems



Wild Washington: [Coastal Ecosystems of Washington](#) (3-5): Lesson plan and activities about the ecology of coastal ecosystems



Wild Washington: [Saving the Shrubsteppe](#) (3-5): Lesson plan and virtual tours of the Eastern Washington shrubsteppe ecosystem



Wild Washington: [Temperate Rainforest Ecosystems](#) (3-5): Lesson plans for teaching about temperate rainforest ecosystems in Washington



Wild Washington: [Estuary Webs](#) (3-5): Lesson plan about estuary ecosystems, food webs, and ecosystem services



LLTK: [Puget Sound Food Web](#) (3-6): Lesson plan and activity for learning about food chains and food webs



Nature Vision: [Ecosystems](#) (3-5): Packet of student activities focusing on salmon, amphibians, and native plants through a water resources lens

GLOBE: [The Mystery of the Missing Hummingbirds](#) (K-4): Story and activities about seasonal changes to habitats

GLOBE: [Biosphere](#) (3-8): Activities to observe and measure ecology, phenology, and the effects of human activities on ecosystems



WNPS: [Giving Space](#) (3): Activity for learning about aspects of habitat and outdoor etiquette



WNPS: [Journal the Seasons](#) (3): Activity for students to observe and learn about seasonal changes in plants, animals, and weather



Seattle Aquarium: [Web of Life](#) (2-8): Activity to demonstrate how animals are connected through food webs

Salmon



Wild Washington: [How to Grow Fish](#) (K-5): Lesson, readings, and video about fish hatcheries



Wild Washington: [Redband Trout and You](#) (K-5): Lesson and activities about redband trout ecology



Wild Washington: [State of Salmon](#) (3-5): Lesson plans and activities for learning about salmonid lifecycle, habitat, and population decline



LLTK: [Steelhead Anatomy](#) (1-5): Lesson plan and worksheet for learning about salmonid anatomy



LLTK: [Steelhead Survival Game](#) (2-6): Math activity (multi-digit subtraction) and game to learn about the dangers that migrating salmonids face



LLTK: [The Salmon Lifecycle](#) (3-6): Lesson plan for teaching about the stages of the salmonid lifecycle



LLTK: [Salmon of the Pacific Northwest](#) (3-6): Activity for learning about the different species of salmon



Since Time Immemorial: [Honoring the Salmon](#) (K-3): Lesson plans about the role of salmon in the cultures of Northwest Tribes



FISH: [Salmon in the Classroom Educator's Guide](#) (K-8): Seven units of lessons and activities covering salmon biology and ecology. Designed to prepare students for a hatchery field trip, but can work as a stand-alone unit.



WA DNR: [Salmon and Climate Change](#) (3-5): Two modules investigating the effects of climate change on salmon in Washington State. Intended to supplement other salmon curriculum.

Plants & Forests



PEI: [Fall Color Leaf Change Schoolyard Investigation](#) (3): Lesson plans for teaching about leaf types and leaf color change



PEI: [Wildfires in Washington](#) (3): Lesson plan for teaching about the causes of wildfires and the effects of climate change



Nature Vision: [Invasive Plants](#) (3-5): Packet of student activities focusing on noxious weeds in King County



WNPS: [Seeds of All Kinds Sort](#) (3): Activity for students to observe and learn about different types of seeds



WNPS: [Seeds of All Kinds Hunt](#) (3): Scavenger hunt activity for students to collect different types of seeds



WNPS: [Flowers to Seeds](#) (3): Activity to teach about seed development



WNPS: [Seed Dispersal Sort](#) (3): Activity to teach about different methods of seed dispersal



WNPS: [Seed Dispersal Hunt](#) (3): Activity for students to identify the different methods of seed dispersal in the field



WNPS: [Growing Native Seeds](#) (3): Activity where students propagate native plants using techniques that replicate natural seasonal dispersal of the seeds



WNPS: [Plant Growth Monitoring](#) (3): Activity where students conduct growth monitoring activities on newly propagated seedlings or young plants in a nearby habitat area



WNPS: [Seeds for Wildlife](#) (3): Activity for students to learn about wildlife that use native seeds and beak adaptations for specific types of seeds



WNPS: [Seeds for People](#) (3): Activity for students to learn about edible native seeds



WSU/Master Gardeners of King County: [Leaf Exploration](#) (K-3): Set of activities focused on observing leaves



WSU/Master Gardeners of King County: [Seeds Are Promises to Sprout](#) (K-3): Set of activities focused on seed structure and germination

Plants & Forests, cont.



WSU/Master Gardeners of King County: [Pinecones Are NOT Fruit, But They Are Prehistoric!](#) (3-5): Set of activities for learning to identify cones of native plants



WSU/ Master Gardeners of King County: [Plants Have Plumbing!](#) (3-5): Set of activities for learning about water transport in plants and twig identification



WSU/Master Gardeners of King County: [Flowers...The Ultimate Advertisement for a Plant and Welcome Mat for Pollinators](#) (3-5): Set of activities for learning about the parts of a flower

Water



Wild Washington: [Solution to Pollution](#) (3-5): Lesson plan and graphing activity about plastic pollution



PEI: [Drain Rangers](#) (3-5): Multidisciplinary unit of lessons and activities focusing on stormwater pollution and solutions to improve water quality

EPA: [Exploring your Watershed](#) (K-6): Lesson plans for learning about watersheds

GLOBE: [Discoveries at Willow Creek](#) (K-4): A storybook and activities about water quality and scientific observations

GLOBE: [Hydrosphere](#) (2-8): Activities and labs to learn about water quality, conducting testing, and gathering data



Nature Vision: [Ecological Impacts](#) (3-5): Packet of student activities focusing on the impacts of stormwater on river, wetland, and marine environments



Nature Vision: [Water Quality](#) (3-5): Packet of student activities focusing on common sources of stormwater pollution and water stewardship actions



Nature Vision: [Human Systems](#) (3-5): Packet of student activities focusing on stormwater and wastewater systems and community water stewardship



Nature Vision: [Watersheds](#) (3-5): Packet of student activities focusing on watersheds and water conservation practices



Nature Vision: [Humans & Water](#) (3-5): Packet of student activities focusing on the process of collecting, transporting, and treating water resources

Oceans



Wild Washington: [Fisheries for the Future](#) (3-5): Lesson plan and worksheet on sustainable seafood



Wild Washington: [Marine Mammals of Washington](#) (3-5): Lesson plan and activity about marine mammal adaptations

NOAA: [An Educator's Guide to Marine Debris](#) (K-8): Lesson plans for learning about trash and pollution



PEI: [Coastal Hazards: Flooding](#) (3): Lesson plans for teaching about the effects of flooding on coastal communities



Seattle Aquarium: [Counting Sea Stars](#) (3-8): Lesson plan for teaching about data sampling techniques, data analysis, and tide pool communities



WA DOE: [The Estuary Guide](#) (K-3): Lessons and activities focused on estuary organisms and ecology. Designed to accompany a field trip, but contains stand-alone activities.

Nat Geo: [Shark Teeth](#) (3-5): Lesson plan and suggested activities for learning about shark adaptations and conservation

Nat Geo: [Coral Reef Fish Survey Simulation](#) (3-5): Activity to learn about how and why fish surveys are conducted

Nat Geo: [Track Leatherback Sea Turtles](#) (3-5): Mapping activity using research and data analysis skills

Nat Geo: [Ocean Exploration](#) (3-8): Lesson plan and suggested activities for learning about ocean exploration

Nat Geo: [Mapping Marine Ecosystems](#) (3-8): Lesson plan and activities for learning about different marine ecosystems

Nat Geo: [Protect the Blue: Marine Protected Areas](#) (3-8): Lesson plan and data visualization activity focusing on the importance of Marine Protected Areas (MPAs)



NOAA: [Saving Springer](#) (2-3): Unit of lessons about orca biology, research, and management, following the story of a young orphaned orca

Weather

GLOBE: [What's Up in the Atmosphere? Exploring Colors of the Sky](#) (K-4): Story and activities about air pollution

GLOBE: [Do You Know That Clouds Have Names?](#) (K-4): Story and activities about the different types of clouds

GLOBE: [Atmosphere](#) (K-8): Set of activities and labs observing and measuring atmospheric conditions

NOAA: [Melts in your bag, not in your hand](#) (K-3): Activity that shows the transfer of heat through radiation

NOAA: [It's the "Rain", Man](#) (K-3): Activity in which students make rain gauges and learn that rainfall varies from location to location

NOAA: [Heavy Air](#) (K-5): Activity that demonstrates that air has weight

NOAA: [A Pressing Engagement](#) (K-5): Activity that demonstrates atmospheric pressure

NOAA: [Canned Heat](#) (K-5): Activity that shows that light and dark colored objects absorb the Sun's radiation at different rates

NOAA: [What-a-Cycle](#) (K-5): Activity that shows the many different routes water can take in its path through the water cycle

NOAA: [Sweatin' to the Coldies](#) (3-5): Activity that demonstrates the change of state from water vapor to liquid

NOAA: [The Rain Man](#) (3-5): Activity that demonstrates the concept of precipitation

NOAA: [Water Cycle Paper Craft](#) (3-5): Activity that demonstrates the water cycle using a 3D paper craft

NOAA: [Atmospheric Collisions](#) (3-5): Activity that demonstrates how rain drops grow by coalescence

NOAA: [How Much Water is in That Cloud?](#) (3-5): Activity that demonstrates the high water capacity of clouds

Weather, cont.

NOAA: [The Rumbly Road](#) (3-5): Activity where students determine the distance to a lightning strike

NOAA: [Leaf it to Me](#) (3-8): Activity for students to observe the effect of transpiration

NOAA: [Toasty Wind](#) (3-8): Activity that demonstrates that convection is the original source of wind

NOAA: [A “Hole” Lot of Clouds](#) (3-8): Lesson and activity for students to learn about the different types of clouds and practice identification

NOAA: [Head in the Clouds](#) (3-8): Activity in which students make a “CloudSpotter wheel” to practice cloud identification

NOAA: [Updrafts in Action](#) (3-8): Activity that demonstrates the ability of the wind to suspend rain and hail in clouds

Climate



WSU/Master Gardeners of King County: [Greenhouses, Atmosphere, Carbon, and Climate](#) (3-5): Set of activities focused on the atmosphere and the greenhouse effect



Gonzaga: [Climate Forecasters](#) (2-3): Lesson plan for teaching about the difference between climate and weather

GLOBE: [What in the World Is Happening to Our Climate?](#) (K-4): Story and activities about human effects on climate and the impacts of climate change around the world

GLOBE: [All About Earth: Our World on Stage](#) (K-4): Story and activities about how Earth's processes are interconnected

GLOBE: [Earth as a System](#) (K-8): Activities and labs to learn about global systems, climate change, and phenology

NOAA: [Climate Resiliency in Your Community](#) (3-5): Booklet of student activities focusing on community preparedness, traditional ecological knowledge, and environmental justice

NOAA: [The Incredible Carbon Journey](#) (3-5): Game that demonstrates the difference in the carbon cycle before and after the industrial revolution

Food, Gardens, & Soil



PEI: [Soil Temp Schoolyard Investigation](#) (3) English, Spanish: Lesson plans and activities exploring the connection between seed germination and soil temperature

GLOBE: [The Scoop on Soils](#) (K-4): Story and activities for learning about soil composition and soil ecology

GLOBE: [Pedosphere](#) (2-8): Activities and labs for learning about soil morphology and properties

WWF: [Food Waste Warriors](#) (K-8): Lessons, activities, and resources for learning about food waste

Sustainability



Gonzaga: [Energy Explorers](#) (3-4): Lesson plan about different sources of energy and how energy can be transferred

NEED: [Elementary Energy Infobook](#) (3-5): Activities for teaching about the science of energy, energy resources, and conservation

NEED: [The Science of Energy](#) (3-5): Activities for learning about types and properties of energy

NEED: [Wonders of the Sun](#) (3-5): Lesson plans and activities for teaching about solar energy

4th Grade

Wildlife



Wild Washington: [Beavers, Nature's Engineers](#) (3-5): Lesson plans about beaver dams and their effects on surrounding ecosystems



Wild Washington: [Herps in Washington](#) (3-5): Lesson plan and activities about reptile and amphibian diversity



Wild Washington: [A Family Pack](#) (3-5): Lesson plan and interactive exhibit about wolf ecology and the cultural perception of wolves



Wild Washington: [What Specialized Teeth You Have](#) (3-5) English, with supplemental materials in Spanish: Lesson plan focusing on carnivore adaptations, with an interactive tour of different types of skulls



Wild Washington: [Wildlife Life Cycles](#) (3-5) English, with supplemental materials in Spanish: Lesson plan about adaptations of baby animals and the phases of animal lifecycles

WWF: [Tigers and Forests](#) (3-5): Multidisciplinary lessons and activities about tiger ecology and conservation

WWF: [Sea Turtles and Oceans](#) (3-5): Multidisciplinary lessons and activities about sea turtle ecology and conservation

WWF: [Polar Bears and Climate Change](#) (3-5): Multidisciplinary lessons and activities about climate change and polar bear conservation

WWF: [Freshwater Dolphins and Conserving Freshwater Resources](#) (3-5): Multidisciplinary lessons and activities about freshwater dolphin ecology and conservation

WWF: [Elephants](#) (3-5): Multidisciplinary lessons and activities about elephant conservation

WWF: [Monarchs](#) (3-5): Multidisciplinary lessons and activities about monarch butterfly habitat and lifecycles



Eastside Audubon: [Bird Discovery](#) (K-8): Unit of lessons and activities for learning about birds of the Pacific Northwest. Companion to the [Bird Discovery Box](#), which may be borrowed from Eastside Audubon.

Wildlife cont.



WSU/Master Gardeners of King County: [Spiders in the Garden](#) (3-5): Set of activities focused on observing common spiders



WSU/Master Gardeners of King County: [The Marvelous Mason Bee](#) (3-5): Set of activities focused on mason bee lifecycle and habitat



WNPS: [Animal Survival Skills](#) (4): Activity that teaches wildlife observation skills and outdoor etiquette



WNPS: [Habitat Hunt](#) (4): Activity for students to learn about habitat components required by different wildlife species



WNPS: [Wildlife Sign Walk](#) (4): Guided walk that shows students how to look for evidence of wildlife

Ecosystems & Ecology



Wild Washington: [Coastal Ecosystems of Washington](#) (3-5): Lesson plan and activities about the ecology of coastal ecosystems



Wild Washington: [Saving the Shrubsteppe](#) (3-5): Lesson plan and virtual tours of the Eastern Washington shrubsteppe ecosystem



Wild Washington: [Temperate Rainforest Ecosystems](#) (3-5): Lesson plans for teaching about temperate rainforest ecosystems in Washington



Wild Washington: [Estuary Webs](#) (3-5): Lesson plan about estuary ecosystems, food webs, and ecosystem services



LLTK: [Puget Sound Food Web](#) (3-6): Lesson plan and activity for learning about food chains and food webs



Nature Vision: [Ecosystems](#) (3-5): Packet of student activities focusing on salmon, amphibians, and native plants through a water resources lens

Ecosystems & Ecology, cont.

GLOBE: [The Mystery of the Missing Hummingbirds](#) (K-4): Story and activities about seasonal changes to habitats

GLOBE: [Biosphere](#) (3-8): Activities to observe and measure ecology, phenology, and the effects of human activities on ecosystems



WNPS: [Cycle of Renewal](#) (4): Activity for teaching about the components of an ecosystem



WNPS: [Life in the Forest Floor](#) (4): Activity where students observe the organisms living in decomposing forest floor materials and learn about their importance



WNPS: [Habitat Features- Each One Teaches One](#) (4): Guided hike where students teach each other about different habitat features



WNPS: [Ecosystem Explorers](#) (4): Activity for students to observe and learn about the components of an ecosystem



WNPS: [Web of Life](#) (4): Activity where students create an ecosystem model to observe the interdependence between components



Seattle Aquarium: [Web of Life](#) (2-8): Activity to demonstrate how animals are connected through food webs

Salmon



Wild Washington: [How to Grow Fish](#) (K-5): Lesson, readings, and video about fish hatcheries



Wild Washington: [Redband Trout and You](#) (K-5): Lesson and activities about redband trout ecology



Environmental Science Center: [Virtual Salmon Heroes](#) (4-8): Videos and activities about water quality, salmon anatomy, and stormwater



NOAA: [An Incredible Journey](#) (4-5): A unit of lessons on the salmon lifecycle, role in culture and the environment, threats, and conservation



Wild Washington: [State of Salmon](#) (3-5): Lesson plans and activities for learning about salmonid lifecycle, habitat, and population decline



LLTK: [Steelhead Anatomy](#) (1-5): Lesson plan and worksheet for learning about salmonid anatomy



LLTK: [Tribal Treaty Rights](#) (4-8): Lesson plan about historical treaties and current fishing rights and tribal salmon management work



LLTK: [The Salmon Lifecycle](#) (3-6): Lesson plan for teaching about the stages of the salmonid lifecycle



LLTK: [Salmon of the Pacific Northwest](#) (3-6): Activity for learning about the different species of salmon



LLTK: [Survive the Sound Journal](#) (4-8): Journal activity to accompany the "Survive the Sound" interactive game each May



LLTK: [Steelhead Survival Game](#) (2-6): Math activity (multi-digit subtraction) and game to learn about the dangers that migrating salmonids face



Since Time Immemorial: [Being Citizens of Washington: Salmon Recovery & the Boldt Decision](#) (4): Unit of lessons on the importance of salmon in Northwest Tribes' cultures and the impacts of the Boldt Decision



FISH: [Salmon in the Classroom Educator's Guide](#) (K-8): Seven units of lessons and activities covering salmon biology and ecology. Designed to prepare students for a hatchery field trip, but can work as a stand-alone unit.

Plants & Forests



Nature Vision: [Invasive Plants](#) (3-5): Packet of student activities focusing on noxious weeds in King County



Nature Vision: [Right Plant, Right Place](#) (3-5): Lesson plan and activities for teaching about invasive plants and noxious weeds in King County



WNPS: [Ethnobotany Story](#) (4): Story and discussion for students to learn about how native plants were used by local Native American cultures



WNPS: [Ethnobotany Snack Plate](#) (4): Activity that teaches about native plants that are sources of food, and how humans depend on the natural environment



WSU/Master Gardeners of King County: [Pinecones Are NOT Fruit, But They Are Prehistoric!](#) (3-5): Set of activities for learning to identify cones of native plants



WSU/ Master Gardeners of King County: [Plants Have Plumbing!](#) (3-5): Set of activities for learning about water transport in plants and twig identification



WSU/Master Gardeners of King County: [Flowers...The Ultimate Advertisement for a Plant and Welcome Mat for Pollinators](#) (3-5): Set of activities for learning about the parts of a flower

Water



IslandWood: [Community Waters](#) (4): Unit of lesson plans and activities investigating stormwater and pollution



PEI: [Drain Rangers](#) (3-5): Multidisciplinary unit of lessons and activities focusing on stormwater pollution and solutions to improve water quality



Wild Washington: [Solution to Pollution](#) (3-5): Lesson plan and graphing activity about plastic pollution



Nature Vision: [Ecological Impacts](#) (3-5): Packet of student activities focusing on the impacts of stormwater on river, wetland, and marine environments



Nature Vision: [Water Quality](#) (3-5): Packet of student activities focusing on common sources of stormwater pollution and water stewardship actions

Water



Nature Vision: [Human Systems](#) (3-5): Packet of student activities focusing on stormwater and wastewater systems and community water stewardship



Nature Vision: [Watersheds](#) (3-5): Packet of student activities focusing on watersheds and water conservation practices



Nature Vision: [Humans & Water](#) (3-5): Packet of student activities focusing on the process of collecting, transporting, and treating water resources



LLTK: [What's a Watershed?](#) (4-6): Lesson plan focusing on watersheds and stormwater

GLOBE: [Discoveries at Willow Creek](#) (K-4): A storybook and activities about water quality and scientific observations

GLOBE: [Hydrosphere](#) (2-8): Activities and lab to learn about water quality, conducting testing, and gathering data

EPA: [Exploring your Watershed](#) (K-6): Lesson plans for learning about watersheds

Oceans



Wild Washington: [Fisheries for the Future](#) (3-5): Lesson plan and worksheet on sustainable seafood



Wild Washington: [Marine Mammals of Washington](#) (3-5): Lesson plan and activity about marine mammal adaptations

NOAA: [An Educator's Guide to Marine Debris](#) (K-8): Lesson plans for learning about trash and pollution



LLTK: [Marine Science Careers](#) (4-8): Reading and worksheet for investigating different careers

Nat Geo: [Shark Teeth](#) (3-5): Lesson plan and suggested activities for learning about shark adaptations and conservation

Nat Geo: [Coral Reef Fish Survey Simulation](#) (3-5): Activity to learn about how and why fish surveys are conducted

Oceans, cont.

Nat Geo: [Track Leatherback Sea Turtles](#) (3-5): Mapping activity using research and data analysis skills

Nat Geo: [Ocean Exploration](#) (3-8): Lesson plan and suggested activities for learning about ocean exploration

Nat Geo: [Mapping Marine Ecosystems](#) (3-8): Lesson plan and activities for learning about different marine ecosystems

Nat Geo: [Protect the Blue: Marine Protected Areas](#) (3-8): Lesson plan and data visualization activity focusing on the importance of Marine Protected Areas (MPAs)

Nat Geo: [Exploring Oceans](#) (4-8): Suggested activities using Google Earth and Pristine Seas Project data



PEI: [Coastal Hazards: Erosion](#) (4): Unit of lessons on weathering and erosion processes



Seattle Aquarium: [Counting Sea Stars](#) (3-8): Lesson plan for teaching about data sampling techniques, data analysis, and tide pool communities



Seattle Aquarium: [Build a Shell](#) (4-8): Activity about how animals build shells and how they are affected by ocean acidification



Seattle Aquarium: [Shell Dissolving](#) (4-8): Activity that demonstrates the effects of ocean acidification on marine invertebrates



WA DOE: [The Estuary Guide](#) (4-8): Lessons and activities focused on watersheds, estuaries, shorelands, and coastal resources. Designed to accompany a field trip, but contains stand-alone activities.

Weather

GLOBE: [What's Up in the Atmosphere? Exploring Colors of the Sky](#) (K-4): Story and activities about air pollution

GLOBE: [Do You Know That Clouds Have Names?](#) (K-4): Story and activities about the different types of clouds

GLOBE: [Atmosphere](#) (K-8): Set of activities and labs observing and measuring atmospheric conditions

NOAA: [Heavy Air](#) (K-5): Activity that demonstrates that air has weight

NOAA: [A Pressing Engagement](#) (K-5): Activity that demonstrates atmospheric pressure

NOAA: [Canned Heat](#) (K-5): Activity that shows that light and dark colored objects absorb the Sun's radiation at different rates

NOAA: [What-a-Cycle](#) (K-5): Activity that shows the many different routes water can take in its path through the water cycle

NOAA: [Sweatin' to the Coldies](#) (3-5): Activity that demonstrates the change of state from water vapor to liquid

NOAA: [The Rain Man](#) (3-5): Activity that demonstrates the concept of precipitation

NOAA: [Water Cycle Paper Craft](#) (3-5): Activity that demonstrates the water cycle using a 3D paper craft

NOAA: [How Much Water is in That Cloud?](#) (3-5): Activity that demonstrates the high water capacity of clouds

NOAA: [The Rumblin' Road](#) (3-5): Activity where students determine the distance to a lightning strike

NOAA: [Leaf it to Me](#) (3-8): Activity for students to observe the effect of transpiration

NOAA: [A "Hole" Lot of Clouds](#) (3-8): Lesson and activity for students to learn about the different types of clouds and practice identification

NOAA: [Head in the Clouds](#) (3-8): Activity in which students make a "CloudSpotter wheel" to practice cloud identification

Climate



WSU/Master Gardeners of King County: [Greenhouses, Atmosphere, Carbon, and Climate](#) (3-5): Set of activities focused on the atmosphere and the greenhouse effect

GLOBE: [What in the World Is Happening to Our Climate?](#) (K-4): Story and activities about human effects on climate and the impacts of climate change around the world

GLOBE: [All About Earth: Our World on Stage](#) (K-4): Story and activities about how Earth's processes are interconnected

GLOBE: [Earth as a System](#) (K-8): Activities and labs to learn about global systems, climate change, and phenology



NSEA: [Where Have All The Glaciers Gone?](#) (4): Lesson and activity that models the greenhouse effect



WA DNR: [Salmon and Climate Change](#) (3-5): Two modules investigating the effects of climate change on salmon in Washington State. Intended to supplement other salmon curriculum.

NOAA: [Climate Resiliency in Your Community](#) (3-5): Booklet of student activities focusing on community preparedness, traditional ecological knowledge, and environmental justice

NOAA: [The Incredible Carbon Journey](#) (3-5): Game that demonstrates the difference in the carbon cycle before and after the industrial revolution

Food, Gardens, & Soil

GLOBE: [The Scoop on Soils](#) (K-4): Story and activities for learning about soil composition and soil ecology

GLOBE: [Pedosphere](#) (2-8): Activities and labs for learning about soil morphology and properties

WWF: [Food Waste Warriors](#) (K-8): Lessons, activities, and resources for learning about food waste

Sustainability



PEI: [Solar](#) (4): Unit of lesson plans on the properties of solar energy and different types of energy sources



Gonzaga: [Energy Explorers](#) (3-4): Lesson plan about different sources of energy and how energy can be transferred

NEED: [Elementary Energy Infobook](#) (3-5): Activities for teaching about the science of energy, energy resources, and conservation

NEED: [The Science of Energy](#) (3-5): Activities for learning about types and properties of energy

NEED: [Wonders of the Sun](#) (3-5): Lesson plans and activities for teaching about solar energy

5th Grade

Wildlife



Wild Washington: [Beavers, Nature's Engineers](#) (3-5): Lesson plans about beaver dams and their effects on surrounding ecosystems



Wild Washington: [Herps in Washington](#) (3-5): Lesson plan and activities about reptile and amphibian diversity



Wild Washington: [A Family Pack](#) (3-5): Lesson plan and interactive exhibit about wolf ecology and the cultural perception of wolves



Wild Washington: [What Specialized Teeth You Have](#) (3-5) English, with supplemental materials in Spanish: Lesson plan focusing on carnivore adaptations, with an interactive tour of different types of skulls



Wild Washington: [Wildlife Life Cycles](#) (3-5) English, with supplemental materials in Spanish: Lesson plan about adaptations of baby animals and the phases of animal lifecycles

WWF: [Tigers and Forests](#) (3-5): Multidisciplinary lessons and activities about tiger ecology and conservation

WWF: [Sea Turtles and Oceans](#) (3-5): Multidisciplinary lessons and activities about sea turtle ecology and conservation

WWF: [Polar Bears and Climate Change](#) (3-5): Multidisciplinary lessons and activities about climate change and polar bear conservation

WWF: [Freshwater Dolphins and Conserving Freshwater Resources](#) (3-5): Multidisciplinary lessons and activities about freshwater dolphin ecology and conservation

WWF: [Elephants](#) (3-5): Multidisciplinary lessons and activities about elephant conservation

WWF: [Monarchs](#) (3-5): Multidisciplinary lessons and activities about monarch butterfly habitat and lifecycles



Eastside Audubon: [Bird Discovery](#) (K-8): Unit of lessons and activities for learning about birds of the Pacific Northwest. Companion to the [Bird Discovery Box](#), which may be borrowed from Eastside Audubon.

Wildlife, cont.



WSU/Master Gardeners of King County: [Spiders in the Garden](#) (3-5): Set of activities focused on observing common spiders



WSU/Master Gardeners of King County: [The Marvelous Mason Bee](#) (3-5): Set of activities focused on mason bee lifecycle and habitat

Ecosystems & Ecology



Wild Washington: [Coastal Ecosystems of Washington](#) (3-5): Lesson plan and activities about the ecology of coastal ecosystems



Wild Washington: [Saving the Shrubsteppe](#) (3-5): Lesson plan and virtual tours of the Eastern Washington shrubsteppe ecosystem



Wild Washington: [Temperate Rainforest Ecosystems](#) (3-5): Lesson plans for teaching about temperate rainforest ecosystems in Washington



Wild Washington: [Estuary Webs](#) (3-5): Lesson plan about estuary ecosystems, food webs, and ecosystem services



LLTK: [Puget Sound Food Web](#) (3-6): Lesson plan and activity for learning about food chains and food webs



Nature Vision: [Ecosystems](#) (3-5): Packet of student activities focusing on salmon, amphibians, and native plants through a water resources lens



PEI: [Wetland Ecosystem Benefits](#) (5): Unit of lessons about wetland ecosystems, photosynthesis, and blue carbon wetlands



Seattle Aquarium: [Web of Life](#) (2-8): Activity to demonstrate how animals are connected through food webs

GLOBE: [Biosphere](#) (3-8) English, Spanish: Activities to observe and measure ecology, phenology, and the effects of human activities on ecosystems

Salmon



Wild Washington: [How to Grow Fish](#) (K-5): Lesson, readings, and video about fish hatcheries



Wild Washington: [Redband Trout and You](#) (K-5): Lesson and activities about redband trout ecology



Environmental Science Center: [Virtual Salmon Heroes](#) (4-8): Videos and activities about water quality, salmon anatomy, and stormwater



NOAA: [An Incredible Journey](#) (4-5): A unit of lessons on the salmon lifecycle, role in culture and the environment, threats, and conservation



Wild Washington: [State of Salmon](#) (3-5): Lesson plans and activities for learning about salmonid lifecycle, habitat, and population decline



LLTK: [Steelhead Anatomy](#) (1-5): Lesson plan and worksheet for learning about salmonid anatomy



LLTK: [Tribal Treaty Rights](#) (4-8): Lesson plan about historical treaties and current fishing rights and tribal salmon management work



LLTK: [The Salmon Lifecycle](#) (3-6): Lesson plan for teaching about the stages of the salmonid lifecycle



LLTK: [Salmon of the Pacific Northwest](#) (3-6): Activity for learning about the different species of salmon



LLTK: [Survive the Sound Journal](#) (4-8): Journal activity to accompany the "Survive the Sound" interactive game each May



LLTK: [Steelhead Survival Game](#) (2-6): Math activity (multi-digit subtraction) and game to learn about the dangers that migrating salmonids face



FISH: [Salmon in the Classroom Educator's Guide](#) (K-8): Seven units of lessons and activities covering salmon biology and ecology. Designed to prepare students for a hatchery field trip, but can work as a stand-alone unit.

Plants & Forests



PEI: [Forest Ecosystem Benefits](#) (5): Lesson plans about forest ecosystems and the cultural and environmental importance of forests



PEI: [Urban Heat Islands](#) (5): Unit of lesson plans focusing on the benefits of trees and tree equity in urban areas



Nature Vision: [Invasive Plants](#) (3-5): Packet of student activities focusing on noxious weeds in King County



Nature Vision: [Right Plant, Right Place](#) (3-5): Lesson plan and activities for teaching about invasive plants and noxious weeds in King County



WNPS: [Designing and Participating in Stewardship](#) (5): Unit of lessons and activities on habitat assessment and restoration, including an ongoing study plot monitoring project



WSU/Master Gardeners of King County: [Pinecones Are NOT Fruit, But They Are Prehistoric!](#) (3-5): Set of activities for learning to identify cones of native plants



WSU/ Master Gardeners of King County: [Plants Have Plumbing!](#) (3-5): Set of activities for learning about water transport in plants and twig identification



WSU/Master Gardeners of King County: [Flowers...The Ultimate Advertisement for a Plant and Welcome Mat for Pollinators](#) (3-5): Set of activities for learning about the parts of a flower

Water



PEI: [Drain Rangers](#) (3-5): Multidisciplinary unit of lessons and activities focusing on stormwater pollution and solutions to improve water quality



Wild Washington: [Solution to Pollution](#) (3-5): Lesson plan and graphing activity about plastic pollution



Nature Vision: [Ecological Impacts](#) (3-5): Packet of student activities focusing on the impacts of stormwater on river, wetland, and marine environments



Nature Vision: [Water Quality](#) (3-5): Packet of student activities focusing on common sources of stormwater pollution and water stewardship actions



Nature Vision: [Human Systems](#) (3-5): Packet of student activities focusing on stormwater and wastewater systems and community water stewardship



Nature Vision: [Watersheds](#) (3-5): Packet of student activities focusing on watersheds and water conservation practices



Nature Vision: [Humans & Water](#) (3-5): Packet of student activities focusing on the process of collecting, transporting, and treating water resources



LLTK: [What's a Watershed?](#) (4-6): Lesson plan focusing on watersheds and stormwater


GLOBE: [Hydrosphere](#) (2-8): Activities and labs to learn about water quality, conducting testing, and gathering data

EPA: [Exploring your Watershed](#) (K-6): Lesson plans for learning about watersheds

Oceans




Wild Washington: [Fisheries for the Future](#) (3-5): Lesson plan on sustainable seafood



Wild Washington: [Marine Mammals of Washington](#) (3-5): Lesson plan and activity about marine mammal adaptations

NOAA: [An Educator's Guide to Marine Debris](#) (K-8): Lesson plans for learning about trash and pollution



LLTK: [Marine Science Careers](#) (4-8): Reading and worksheet for investigating different careers

Nat Geo: [Shark Teeth](#) (3-5): Lesson plan and suggested activities for learning about shark adaptations and conservation

Nat Geo: [Coral Reef Fish Survey Simulation](#) (3-5): Activity to learn about how and why fish surveys are conducted


Nat Geo: [Track Leatherback Sea Turtles](#) (3-5): Mapping activity using research and data analysis skills

Nat Geo: [Ocean Exploration](#) (3-8): Lesson plan and suggested activities for learning about ocean exploration


Nat Geo: [Mapping Marine Ecosystems](#) (3-8): Lesson plan and activities for learning about different marine ecosystems

Nat Geo: [Protect the Blue: Marine Protected Areas](#) (3-8): Lesson plan and data visualization activity focusing on the importance of Marine Protected Areas (MPAs)


Nat Geo: [Exploring Oceans](#) (4-8): Suggested activities using Google Earth and Pristine Seas Project data




Seattle Aquarium: [Counting Sea Stars](#) (3-8): Lesson plan for teaching about data sampling techniques, data analysis, and tide pool communities



Seattle Aquarium: [Build a Shell](#) (4-8): Activity about how animals build shells and how they are affected by ocean acidification



Seattle Aquarium: [Shell Dissolving](#) (4-8): Activity that demonstrates the effects of ocean acidification on marine invertebrates



WA DOE: [The Estuary Guide](#) (4-8): Lessons and activities focused on watersheds, estuaries, shorelands, and coastal resources. Designed to accompany a field trip, but contains stand-alone activities.

Weather

GLOBE: [Atmosphere](#) (K-8): Set of activities and labs observing and measuring atmospheric conditions

NOAA: [Heavy Air](#) (K-5): Activity that demonstrates that air has weight

NOAA: [A Pressing Engagement](#) (K-5): Activity that demonstrates atmospheric pressure

NOAA: [Canned Heat](#) (K-5): Activity that shows that light and dark colored objects absorb the Sun's radiation at different rates

NOAA: [What-a-Cycle](#) (K-5): Activity that shows the many different routes water can take in its path through the water cycle

NOAA: [Sweatin' to the Coldies](#) (3-5): Activity that demonstrates the change of state from water vapor to liquid

NOAA: [The Rain Man](#) (3-5): Activity that demonstrates the concept of precipitation

NOAA: [Water Cycle Paper Craft](#) (3-5): Activity that demonstrates the water cycle using a 3D paper craft

NOAA: [How Much Water is in That Cloud?](#) (3-5): Activity that demonstrates the high water capacity of clouds

NOAA: [The Rumblin' Road](#) (3-5): Activity where students determine the distance to a lightning strike

NOAA: [Leaf it to Me](#) (3-8): Activity for students to observe the effect of transpiration

NOAA: [A "Hole" Lot of Clouds](#) (3-8): Lesson and activity for students to learn about the different types of clouds and practice identification

NOAA: [Head in the Clouds](#) (3-8): Activity in which students make a "CloudSpotter wheel" to practice cloud identification

Climate



WSU/Master Gardeners of King County: [Greenhouses, Atmosphere, Carbon, and Climate](#) (3-5): Set of activities focused on the atmosphere and the greenhouse effect



WA DNR: [Salmon and Climate Change](#) (3-5): Two modules investigating the effects of climate change on salmon in Washington State. Intended to supplement other salmon curriculum.

GLOBE: [Earth as a System](#) (K-8): Activities and labs to learn about global systems, climate change, and phenology

NOAA: [Climate Resiliency in Your Community](#) (3-5): Booklet of student activities focusing on community preparedness, traditional ecological knowledge, and environmental justice

NOAA: [The Incredible Carbon Journey](#) (3-5): Game that demonstrates the difference in the carbon cycle before and after the industrial revolution

Food, Gardens, & Soils



PEI: [Food Waste](#) (5): Lesson plans and activities about the effects of food waste and solutions to reduce waste



PEI: [Regenerative Agriculture](#) (5): Unit of lesson plans on soil, the carbon cycle, Indigenous agricultural practices, and regenerative agricultural practices

GLOBE: [Pedosphere](#) (2-8): Activities and labs for learning about soil morphology and properties

WWF: [Food Waste Warriors](#) (K-8): Lessons, activities, and resources for learning about food waste

Sustainability

NEED: [Elementary Energy Infobook](#) (3-5): Activities for teaching about the science of energy, energy resources, and conservation

NEED: [The Science of Energy](#) (3-5): Activities for learning about types and properties of energy

NEED: [Wonders of the Sun](#) (3-5): Lesson plans and activities for teaching about solar energy

6th Grade

Wildlife



Wild Washington: [Counting Birds for Science](#) (6-8): Lesson plan on bird identification and community science, using technology such as Merlin, eBird, and Project Feeder Watch



Wild Washington: [Endangered Species of Washington](#) (6-8): Lesson plan about the conservation of endangered species



Wild Washington: [Following Habitat](#) (6-8): Lesson plan and activities focusing on waterfowl migrations and data mapping



Wild Washington: [Hooves and Herds](#) (6-8): Lesson plan and activities about the characteristics and adaptations of ungulates



Wild Washington: [Protecting Cats and Wildlife](#) (6-8): Lesson plan and activities about the effects of outdoor cats on biodiversity, the different perspectives, and potential solutions



Wild Washington: [Sharing Spaces](#) (6-8): Service-learning based lesson on wildlife conflict issues in local communities



Wild Washington: [Trafficking Wildlife](#) (6-8): Lesson plan and activities to explore the effects of the wildlife poaching and trafficking industries, as well as the careers of WDFW detectives and enforcement officers



Wild Washington: [Wildlife and Wildfires](#) (6-8): Lesson plan on the positive and negative aspects of wildfires and how wildfire regimes have shifted over time



Wild Washington: [Wildlife Doctors](#) (6-8): Lesson plan about the field of wildlife rehabilitation



Eastside Audubon: [Bird Discovery](#) (K-8): Unit of lessons and activities for learning about birds of the Pacific Northwest. Companion to the [Bird Discovery Box](#), which may be borrowed from Eastside Audubon.

Ecosystems & Ecology



LLTK: [Puget Sound Food Web](#) (3-6): Lesson plan and activity for learning about food chains and food webs

GLOBE: [Biosphere](#) (3-8): Activities to observe and measure ecology, phenology, and the effects of human activities on ecosystems

WWF: [Biodiversity](#) (6-8): Multidisciplinary lesson plans and activities about world biodiversity



PEI: [Wetland Ecosystem Services](#) (6-8): Unit of lessons about the benefits of coastal ecosystems, with a focus on climate planning



WISC: [Invasive Species](#) (6-8): Unit of lessons on invasive species ecology and the effects on ecosystems and society



Wild Washington: [Protecting Pollinators](#) (6-8): Lesson plan and community science project focusing on the importance of Washington's pollinators



Nature Vision: [Water Conservation and Wildlife Ecosystems](#) (6-8): Packet of student activities focusing on the role of salmon as a keystone species



Seattle Aquarium: [Web of Life](#) (2-8): Activity to demonstrate how animals are connected through food webs

Salmon



NPS: [Freeing the Elwha](#) (6-8): Inquiry and standards-based curriculum about the history and science of the Elwha Dam and river restoration



Environmental Science Center: [Virtual Salmon Heroes](#) (4-8): Videos and activities about water quality, salmon anatomy, and stormwater



LLTK: [Tribal Treaty Rights](#) (4-8): Lesson plan about historical treaties and current fishing rights and tribal salmon management work



LLTK: [The Salmon Lifecycle](#) (3-6): Lesson plan for teaching about the stages of the salmonid lifecycle



LLTK: [Salmon of the Pacific Northwest](#) (3-6): Activity for learning about the different species of salmon



LLTK: [Survive the Sound Journal](#) (4-8): Journal activity to accompany the "Survive the Sound" interactive game each May



LLTK: [Steelhead Survival Game](#) (2-6): Math activity (multi-digit subtraction) and game to learn about the dangers that migrating salmonids face



FISH: [Salmon in the Classroom Educator's Guide](#) (K-8): Seven units of lessons and activities covering salmon biology and ecology. Designed to prepare students for a hatchery field trip, but can work as a stand-alone unit.

Plants & Forests



PEI: [Forest Management](#) (6-8): Lesson plans and activities for teaching about wildfires and forest management



PEI: [Carbon Sequestration](#) (6-8): Lesson plans about tree growth, photosynthesis, and carbon storage



PEI: [Ecosystem Benefits of an Urban Forest](#) (6-8): Unit of lesson plans exploring the effects of human communities on the ecosystem, and the effects of urban forests on human communities



Nature Vision: [Invasive Plants](#) (6-8): Packet of student activities about the environmental impacts of noxious weeds and different ways to address the issue




WNPS: [Native Plant Education](#) (6-8): Unit of lesson plans and activities focusing on Pacific Northwest native plants and ecosystems



WNPS: [Habitat Restoration](#) (6-8): Curriculum for creating a native plant garden or habitat restoration project

Project Learning Tree: [Teaching with i-Tree](#) (6-8): Unit of lesson plans exploring the ecosystem services of trees using the free i-Tree software

Water


 LLTK: [What's a Watershed?](#) (4-6): Lesson plan focusing on watersheds and stormwater


Project WET: [From Design to Data: Water Quality Monitoring](#) (6-8): Lesson plan for teaching about water quality monitoring goals and practices


Project WET: [Water Quality Indicators: Biological, Chemical, & Physical Parameters](#) (6-8): Lesson plan and activities for teaching about water quality parameters


Project WET: [Cumulative Impacts in a Watershed](#) (6-8): Lesson plan and activities for teaching about the effects of pollution and poor water quality


Project WET: [Graphic Data & Analyzing Trends in Water Quality](#) (6-8): Lesson plan for teaching about watersheds and how to interpret datasets


 PEI: [Engineering Solutions](#) (6-8): Multidisciplinary unit of lessons and activities that teaches students about stormwater pollution and guides them through designing and implementing solutions

 Nature Vision: [Ecological Impacts](#) (6-8): Packet of student activities focusing on the impacts of stormwater pollution on the different habitats within our watershed

 Nature Vision: [Water Quality](#) (6-8): Packet of student activities focusing on common sources of stormwater pollution and ways to prevent pollution

 Nature Vision: [Human Systems](#) (6-8): Packet of student activities focusing on wastewater treatment and green infrastructure


 Nature Vision: [Watersheds](#) (6-8): Packet of student activities focusing on watersheds and aquatic ecosystems

 Nature Vision: [Humans & Water](#) (6-8): Packet of student activities focusing on regional water resources and water conservation

GLOBE: [Hydrosphere](#) (2-8): Activities and labs to learn about water quality, conducting testing, and gathering data


EPA: [Exploring your Watershed](#) (K-6): Lesson plans for learning about watersheds

Oceans

 Wild Washington: [Hungry Orcas, Declining Salmon](#) (6-8): Lesson plan about the relationship between orcas and Chinook salmon and current research and conservation work

NOAA: [Saving the Southern Resident Killer Whales](#) (6-8): A project-based learning unit about the threats facing local orcas and the actions people can take to help them

NOAA: [An Educator's Guide to Marine Debris](#) (K-8): Lesson plans for learning about trash and pollution

 LLTK: [Marine Science Careers](#) (4-8): Reading and worksheet for investigating different careers


Nat Geo: [Ocean Exploration](#) (3-8): Lesson plan and suggested activities for learning about ocean exploration


Nat Geo: [Mapping Marine Ecosystems](#) (3-8): Lesson plan and activities for learning about different marine ecosystems


Nat Geo: [Protect the Blue: Marine Protected Areas](#) (3-8): Lesson plan and data visualization activity focusing on the importance of Marine Protected Areas (MPAs)

Nat Geo: [Exploring Oceans](#) (4-8): Suggested activities using Google Earth and Pristine Seas Project data

Nat Geo: [Under the Sea](#) (6-8): Lesson plan for teaching about trophic levels and the effects of plastic pollution

 PEI: [Coastal Hazards: Sea Level Rise](#) (6-8): Unit of lesson plans on the causes of sea level rise and the effects on coastal communities

 Seattle Aquarium: [Counting Sea Stars](#) (3-8): Lesson plan for teaching about data sampling techniques, data analysis, and tide pool communities

 Seattle Aquarium: [Build a Shell](#) (4-8): Activity about how animals build shells and how they are affected by ocean acidification

Oceans, cont.



Seattle Aquarium: [Shell Dissolving](#) (4-8): Activity that demonstrates the effects of ocean acidification on marine invertebrates



WA DOE: [The Estuary Guide](#) (4-8): Lessons and activities focused on watersheds, estuaries, shorelands, and coastal resources. Designed to accompany a field trip, but contains stand-alone activities.

Weather

GLOBE: [Atmosphere](#) (K-8): Set of activities and labs observing and measuring atmospheric conditions

NOAA: [Leaf it to Me](#) (3-8): Activity for students to observe the effect of transpiration

NOAA: [Toasty Wind](#) (3-8): Activity that demonstrates that convection is the original source of wind

NOAA: [A “Hole” Lot of Clouds](#) (3-8): Lesson and activity for students to learn about the different types of clouds and practice identification

NOAA: [Head in the Clouds](#) (3-8): Activity in which students make a “CloudSpotter wheel” to practice cloud identification

NOAA: [Updrafts in Action](#) (3-8): Activity that demonstrates the ability of the wind to suspend rain and hail in clouds

NOAA: [Going with the Flow](#) (6-8): Activity that demonstrates that the faster air moves, the lower the pressure becomes within that flow of air

NOAA: [Crunch Time](#) (6-8): Activity that demonstrates the effect of heat on pressure

NOAA: [The “Wet” Barometer](#) (6-8): Activity in which students make a barometer

NOAA: [The “Dry” Barometer](#) (6-8): Activity in which students make their own aneroid barometer

NOAA: [The Shadow Knows I](#) (6-8): Project where students use shadows to observe the movement of the Sun through the seasons

Weather, cont.

NOAA: [Smoking Clouds](#) (6-8): Activity that demonstrates how the addition of smoke particles aids in the production of a cloud

NOAA: [Pie in the Sky](#) (6-8): Activity to visualize high- and low-pressure areas in the upper atmosphere

NOAA: [Drawing Conclusions](#) (6-8): Activity where students determine the location of cold and warm fronts on a map plotted with weather observations

Climate

GLOBE: [Earth as a System](#) (K-8): Activities and labs to learn about global systems, climate change, and phenology

NOAA: [Investigating El Niño](#) (6-8): Module of data analysis activities in which students investigate changes in sea surface temperature and how El Niño affects phytoplankton using real data

NOAA: [Investigating Sea Level](#) (6-8): Module of data analysis activities using NOAA data to determine the effects of sea level changes on coastal communities

NOAA: [Investigating Coral Bleaching](#) (6-8): Module of data analysis activities using NOAA data to understand coral bleaching event monitoring and the health of coral reefs

NOAA: [Investigating Ocean Acidification](#) (6-8): Module of data analysis activities that explore the relationships between CO₂, pH, and aragonite saturation to understand the survival of shell-building marine life



UW: [Harmful Algal Blooms](#) (6-8): Set of four lessons about the causes and impacts of harmful algal blooms (HABs)



UW: [Climate Change and Hydrology](#) (6-8): Activity that guides students to think about how climate change affects the water cycle



UW: [Fish Kills in the Hood Canal](#) (6-8): Unit of lessons that investigate the phenomena of fish kills in Hood Canal, integrating biology, chemistry, and physics

Food, Gardens, & Soils



PEI: [Food Waste](#) (6-8): Lesson plans and activities about the effects of food waste and solutions to reduce waste



PEI: [Regenerative Agriculture](#) (6-8): Unit of lesson plans on soil, the carbon cycle, and regenerative agricultural practices

WWF: [Food Waste Warriors](#) (K-8): Lessons, activities, and resources for learning about food waste

GLOBE: [Pedosphere](#) (2-8): Activities and labs for learning about soil morphology and properties

Geology



USGS/NPS: [Living with a Volcano in Your Backyard](#) (6-8): Curriculum covering the geologic and hydrologic processes that shaped Mount Rainier



WGS: [Guide to the Mima Mounds](#) (6-8): Booklet of information and activities about the Mima Mounds Natural Area Preserve



WGS: [Landslides of Mount St. Helens](#) (6-8): Booklet of information and activities about landslide geology



WGS: [Volcanoes: An Interactive Web Guide](#) (6-8): Packet of activities that walks students through learning about volcanoes on the Washington Geological Survey website



WGS: [Tsunamis: An Interactive Web Guide](#) (6-8): Packet of activities that walks students through learning about tsunamis on the Washington Geological Survey website

USGS: [Plate Tectonics Globe](#) (6-8): Activity for students to learn about the major plate boundaries of the world and the limitations of two-dimensional maps

7th Grade

Wildlife



Wild Washington: [Counting Birds for Science](#) (6-8): Lesson plan on bird identification and community science, using technology such as Merlin, eBird, and Project Feeder Watch



Wild Washington: [Endangered Species of Washington](#) (6-8): Lesson plan about the conservation of endangered species



Wild Washington: [Following Habitat](#) (6-8): Lesson plan and activities focusing on waterfowl migrations and data mapping



Wild Washington: [Hooves and Herds](#) (6-8): Lesson plan and activities about the characteristics and adaptations of ungulates



Wild Washington: [Protecting Cats and Wildlife](#) (6-8): Lesson plan and activities about the effects of outdoor cats on biodiversity, the different perspectives, and potential solutions



Wild Washington: [Sharing Spaces](#) (6-8): Service-learning based lesson on wildlife conflict issues in local communities



Wild Washington: [Trafficking Wildlife](#) (6-8): Lesson plan and activities to explore the effects of the wildlife poaching and trafficking industries, as well as the careers of WDFW detectives and enforcement officers



Wild Washington: [Wildlife and Wildfires](#) (6-8): Lesson plan on the positive and negative aspects of wildfires and how wildfire regimes have shifted over time



Wild Washington: [Wildlife Doctors](#) (6-8): Lesson plan about the field of wildlife rehabilitation



Eastside Audubon: [Bird Discovery](#) (K-8): Unit of lessons and activities for learning about birds of the Pacific Northwest. Companion to the [Bird Discovery Box](#), which may be borrowed from Eastside Audubon.

Ecosystems & Ecology

GLOBE: [Biosphere](#) (3-8): Activities to observe and measure ecology, phenology, and the effects of human activities on ecosystems

WWF: [Biodiversity](#) (6-8): Multidisciplinary lesson plans and activities about world biodiversity

Nat Geo: [Preserving Critical Species: Inquiry to Action](#) (7-8): Lesson plan for teaching students how to develop thoughtful research questions, focusing on endangered species



PEI: [Wetland Ecosystem Services](#) (6-8): Unit of lessons about the benefits of coastal ecosystems, with a focus on climate planning



WISC: [Invasive Species](#) (6-8): Unit of lessons on invasive species ecology and the effects on ecosystems and society



Wild Washington: [Protecting Pollinators](#) (6-8): Lesson plan and community science project focusing on the importance of Washington's pollinators



Nature Vision: [Water Conservation and Wildlife Ecosystems](#) (6-8): Packet of student activities focusing on the role of salmon as a keystone species



Seattle Aquarium: [Web of Life](#) (2-8): Activity to demonstrate how animals are connected through food webs

Salmon



NPS: [Freeing the Elwha](#) (6-8): Inquiry and standards-based curriculum about the history and science of the Elwha Dam and river restoration



Environmental Science Center: [Virtual Salmon Heroes](#) (4-8): Videos and activities about water quality, salmon anatomy, and stormwater



LLTK: [Tribal Treaty Rights](#) (4-8): Lesson plan about historical treaties and current fishing rights and tribal salmon management work

Salmon, cont.



LLTK: [Survive the Sound Journal](#) (4-8): Journal activity to accompany the "Survive the Sound" interactive game each May



Since Time Immemorial: [Contemporary Washington State — The Boldt Decision: 40 Years Later](#) (7): Unit of lesson plans for teaching about tribal fishing rights and contemporary conservation work



FISH: [Salmon in the Classroom Educator's Guide](#) (K-8): Seven units of lessons and activities covering salmon biology and ecology. Designed to prepare students for a hatchery field trip, but can work as a stand-alone unit.

Plants & Forests



PEI: Forest Management (6-8) [English](#) and [Spanish](#): Lesson plans and activities for teaching about wildfires and forest management



PEI: [Carbon Sequestration](#) (6-8): Lesson plans about tree growth, photosynthesis, and carbon storage

Project Learning Tree: [Teaching with i-Tree](#) (6-8): Unit of lesson plans exploring the ecosystem services of trees using the free i-Tree software



PEI: [Ecosystem Benefits of an Urban Forest](#) (6-8): Unit of lesson plans exploring the effects of human communities on the ecosystem, and the effects of urban forests on human communities



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Project WET: [From Design to Data: Water Quality Monitoring](#) (6-8): Lesson plan for teaching about water quality monitoring goals and practices

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Nat Geo: [Protect the Blue: Marine Protected Areas](#) (3-8): Lesson plan and data visualization activity focusing on the role of Marine Protected Areas (MPAs)

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Seattle Aquarium: [Build a Shell](#) (4-8): Activity about how animals build shells and how they are affected by ocean acidification



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NOAA: [Drawing Conclusions](#) (6-8): Activity where students determine the location of cold and warm fronts on a map plotted with weather observations

Climate



UW: [Harmful Algal Blooms](#) (6-8): Set of four lessons about the causes and impacts of harmful algal blooms (HABs)



UW: [Uncovering How Eelgrass Protects Washington Waters from Ocean Acidification](#) (7-8): Set of three modules investigating eelgrass ecosystems and the chemistry of ocean acidification



UW: [Climate Change and Hydrology](#) (6-8): Activity that guides students to think about how climate change affects the water cycle



UW: [Fish Kills in the Hood Canal](#) (6-8): Unit of lessons that investigate the phenomena of fish kills in Hood Canal, integrating biology, chemistry, and physics

GLOBE: [Earth as a System](#) (K-8): Activities and labs to learn about global systems, climate change, and phenology

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NOAA: [Investigating Sea Level](#) (6-8): Module of data analysis activities using NOAA data to determine the effects of sea level changes on coastal communities

NOAA: [Investigating Coral Bleaching](#) (6-8): Module of data analysis activities using NOAA data to understand coral bleaching event monitoring and the health of coral reefs

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Food, Gardens, & Soils



PEI: [Food Waste](#) (6-8): Lesson plans and activities about the effects of food waste and solutions to reduce waste

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GLOBE: [Pedosphere](#) (2-8): Activities and labs for learning about soil morphology and properties

Geology



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WGS: [Volcanoes: An Interactive Web Guide](#) (6-8): Packet of activities that walks students through learning about volcanoes on the Washington Geological Survey website



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USGS: [Plate Tectonics Globe](#) (6-8): Activity for students to learn about the major plate boundaries of the world and the limitations of two-dimensional maps

8th Grade

Wildlife



Wild Washington: [Counting Birds for Science](#) (6-8): Lesson plan on bird identification and community science, using technology such as Merlin, eBird, and Project Feeder Watch



Wild Washington: [Endangered Species of Washington](#) (6-8): Lesson plan about the conservation of endangered species



Wild Washington: [Following Habitat](#) (6-8): Lesson plan and activities focusing on waterfowl migrations and data mapping



Wild Washington: [Hooves and Herds](#) (6-8): Lesson plan and activities about the characteristics and adaptations of ungulates



Wild Washington: [Protecting Cats and Wildlife](#) (6-8): Lesson plan and activities about the effects of outdoor cats on biodiversity, the different perspectives, and potential solutions



Wild Washington: [Sharing Spaces](#) (6-8): Service-learning based lesson on wildlife conflict issues in local communities



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Wild Washington: [Wildlife and Wildfires](#) (6-8): Lesson plan on the positive and negative aspects of wildfires and how wildfire regimes have shifted over time



Wild Washington: [Wildlife Doctors](#) (6-8): Lesson plan about the field of wildlife rehabilitation



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Ecosystems & Ecology

GLOBE: [Biosphere](#) (3-8) English, Spanish: Activities to observe and measure ecology, phenology, and the effects of human activities on ecosystems

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PEI: [Wetland Ecosystem Services](#) (6-8): Unit of lessons about the benefits of coastal ecosystems, with a focus on climate planning



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Wild Washington: [Protecting Pollinators](#) (6-8): Lesson plan and community science project focusing on the importance of Washington's pollinators



Nature Vision: [Water Conservation and Wildlife Ecosystems](#) (6-8): Packet of student activities focusing on the role of salmon as a keystone species



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NPS: [Freeing the Elwha](#) (6-8): Inquiry and standards-based curriculum about the history and science of the Elwha Dam and river restoration



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LLTK: [Tribal Treaty Rights](#) (4-8): Lesson plan about historical treaties and current fishing rights and tribal salmon management work

Salmon



LLTK: [Survive the Sound Journal](#) (4-8): Journal activity to accompany the "Survive the Sound" interactive game each May



FISH: [Salmon in the Classroom Educator's Guide](#) (K-8): Seven units of lessons and activities covering salmon biology and ecology. Designed to prepare students for a hatchery field trip, but can work as a stand-alone unit.

Plants & Forests



PEI: [Forest Management](#) (6-8): Lesson plans and activities for teaching about wildfires and forest management



PEI: [Carbon Sequestration](#) (6-8): Lesson plans about tree growth, photosynthesis, and carbon storage

Project Learning Tree: [Teaching with i-Tree](#) (6-8): Unit of lesson plans exploring the ecosystem services of trees using the free i-Tree software



PEI: [Ecosystem Benefits of an Urban Forest](#) (6-8): Unit of lesson plans exploring the effects of human communities on the ecosystem, and the effects of urban forests on human communities



Nature Vision: [Invasive Plants](#) (6-8): Packet of student activities about the environmental impacts of noxious weeds and different ways to address the issue




WNPS: [Native Plant Education](#) (6-8): Unit of lesson plans and activities focusing on Pacific Northwest native plants and ecosystems



WNPS: [Habitat Restoration](#) (6-8): Curriculum for creating a native plant garden or habitat restoration project

Water



PEI: [Engineering Solutions](#) (6-8): Multidisciplinary unit of lessons and activities that teaches students about stormwater pollution and guides them through designing and implementing solutions


Project WET: [From Design to Data: Water Quality Monitoring](#) (6-8): Lesson plan for teaching about water quality monitoring goals and practices

Project WET: [Water Quality Indicators: Biological, Chemical, & Physical Parameters](#) (6-8): Lesson plan and activities for teaching about water quality parameters


Project WET: [Cumulative Impacts in a Watershed](#) (6-8): Lesson plan and activities for teaching about the effects of pollution and poor water quality

Project WET: [Graphic Data & Analyzing Trends in Water Quality](#) (6-8): Lesson plan for teaching about watersheds and how to interpret datasets


GLOBE: [Hydrosphere](#) (2-8): Activities and labs to learn about water quality, conducting testing, and gathering data




Nature Vision: [Ecological Impacts](#) (6-8): Packet of student activities focusing on the impacts of stormwater pollution on the different habitats within our watershed




Nature Vision: [Water Quality](#) (6-8): Packet of student activities focusing on common sources of stormwater pollution and ways to prevent pollution



Nature Vision: [Human Systems](#) (6-8): Packet of student activities focusing on wastewater treatment and green infrastructure



Nature Vision: [Watersheds](#) (6-8): Packet of student activities focusing on watersheds and aquatic ecosystems



Nature Vision: [Humans & Water](#) (6-8): Packet of student activities focusing on regional water resources and water conservation

Oceans



Wild Washington: [Hungry Orcas, Declining Salmon](#) (6-8): Lesson plan about the relationship between orcas and Chinook, current research, and conservation work



NOAA: [Saving the Southern Resident Killer Whales](#) (6-8): A project-based learning unit about the threats facing local orcas and actions people can take to help them

NOAA: [An Educator's Guide to Marine Debris](#) (K-8): Lesson plans for learning about trash and pollution



LLTK: [Marine Science Careers](#) (4-8): Reading and worksheet for investigating different careers

Nat Geo: [Ocean Exploration](#) (3-8): Lesson plan and suggested activities for learning about ocean exploration

Nat Geo: [Mapping Marine Ecosystems](#) (3-8): Lesson plan and activities for learning about different marine ecosystems

Nat Geo: [Protect the Blue: Marine Protected Areas](#) (3-8): Lesson plan and data visualization activity focusing on the importance of Marine Protected Areas (MPAs)

Nat Geo: [Exploring Oceans](#) (4-8): Suggested activities using Google Earth and Pristine Seas Project data

Nat Geo: [Under the Sea](#) (6-8): Lesson plan for teaching about trophic levels and the effects of plastic pollution



PEI: [Coastal Hazards: Sea Level Rise](#) (6-8): Unit of lesson plans on the causes of sea level rise and the effects on coastal communities



Seattle Aquarium: [Counting Sea Stars](#) (3-8): Lesson plan for teaching about data sampling techniques, data analysis, and tide pool communities



Seattle Aquarium: [Build a Shell](#) (4-8): Activity about how animals build shells and how they are affected by ocean acidification



Seattle Aquarium: [Shell Dissolving](#) (4-8): Activity that demonstrates the effects of ocean acidification on marine invertebrates



WA DOE: [The Estuary Guide](#) (4-8): Lessons and activities focused on watersheds, estuaries, shorelands, and coastal resources. Designed to accompany a field trip, but contains stand-alone activities.

Weather

GLOBE: [Atmosphere](#) (K-8): Set of activities and labs observing and measuring atmospheric conditions

NOAA: [Leaf it to Me](#) (3-8): Activity for students to observe the effect of transpiration

NOAA: [Toasty Wind](#) (3-8): Activity that demonstrates that convection is the original source of wind

NOAA: [A “Hole” Lot of Clouds](#) (3-8): Lesson and activity for students to learn about the different types of clouds and practice identification

NOAA: [Head in the Clouds](#) (3-8): Activity in which students make a “CloudSpotter wheel” to practice cloud identification

NOAA: [Updrafts in Action](#) (3-8): Activity that demonstrates the ability of the wind to suspend rain and hail in clouds

NOAA: [Going with the Flow](#) (6-8): Activity that demonstrates that the faster air moves, the lower the pressure becomes within that flow of air

NOAA: [Crunch Time](#) (6-8): Activity that demonstrates the effect of heat on pressure

NOAA: [The “Wet” Barometer](#) (6-8): Activity in which students make a barometer

NOAA: [The “Dry” Barometer](#) (6-8): Activity in which students make their own aneroid barometer

NOAA: [The Shadow Knows](#) (6-8): Project where students use shadows to observe the movement of the Sun through the seasons

NOAA: [Smoking Clouds](#) (6-8): Activity that demonstrates how the addition of smoke particles aids in the production of a cloud

NOAA: [Pie in the Sky](#) (6-8): Activity to visualize high- and low-pressure areas in the upper atmosphere

NOAA: [Drawing Conclusions](#) (6-8): Activity where students determine the location of cold and warm fronts on a map plotted with weather observations

Climate



UW: [Harmful Algal Blooms](#) (6-8): Set of four lessons about the causes and impacts of harmful algal blooms (HABs)



UW: [Uncovering How Eelgrass Protects Washington Waters from Ocean Acidification](#) (7-8): Set of three modules investigating eelgrass ecosystems and the chemistry of ocean acidification



UW: [Climate Change and Hydrology](#) (6-8): Activity that guides students to think about how climate change affects the water cycle



UW: [Fish Kills in the Hood Canal](#) (6-8): Unit of lessons that investigate the phenomena of fish kills in Hood Canal, integrating biology, chemistry, and physics

GLOBE: [Earth as a System](#) (K-8): Activities and labs to learn about global systems, climate change, and phenology

NOAA: [Investigating El Niño](#) (6-8): Module of data analysis activities in which students investigate changes in sea surface temperature and how El Niño affects phytoplankton using real data

NOAA: [Investigating Sea Level](#) (6-8): Module of data analysis activities using NOAA data to determine the effects of sea level changes on coastal communities

NOAA: [Investigating Coral Bleaching](#) (6-8): Module of data analysis activities using NOAA data to understand coral bleaching event monitoring and the health of coral reefs

NOAA: [Investigating Ocean Acidification](#) (6-8): Module of data analysis activities that explore the relationships between CO₂, pH, and aragonite saturation to understand the survival of shell-building marine life

Food, Gardens, & Soils



PEI: [Food Waste](#) (6-8): Lesson plans and activities about the effects of food waste and solutions to reduce waste

WWF: [Food Waste Warriors](#) (K-8): Lessons, activities, and resources for learning about food waste



PEI: [Regenerative Agriculture](#) (6-8): Unit of lesson plans on soil, the carbon cycle, and regenerative agricultural practices

GLOBE: [Pedosphere](#) (2-8): Activities and labs for learning about soil morphology and properties

Geology



USGS/NPS: [Living with a Volcano in Your Backyard](#) (6-8): Curriculum covering the geologic and hydrologic processes that shaped Mount Rainier



WGS: [Guide to the Mima Mounds](#) (6-8): Booklet of information and activities about the Mima Mounds Natural Area Preserve



WGS: [Landslides of Mount St. Helens](#) (6-8): Booklet of information and activities about landslide geology



WGS: [Volcanoes: An Interactive Web Guide](#) (6-8): Packet of activities that walks students through learning about volcanoes on the Washington Geological Survey website



WGS: [Tsunamis: An Interactive Web Guide](#) (6-8): Packet of activities that walks students through learning about tsunamis on the Washington Geological Survey website

USGS: [Plate Tectonics Globe](#) (6-8): Activity for students to learn about the major plate boundaries of the world and the limitations of two-dimensional maps