

WATER EDUCATION FOR SCHOOLS



Northshore Utility District and Woodinville Water District are teaming up to offer several classroom presentations in local schools to help students explore the fascinating world of water. All presentations are tailored to our region and are offered free of charge. Each class will be conducted by an experienced naturalist from Nature Vision, Inc.

Program descriptions are offered below. Contact information on back.



"Toadally" Amphibians

{Grades K-4}



Students study these fascinating creatures who are dependant upon healthy water sources. Discussion about how human influences affect amphibian populations is part of the program.

Blue Team Stewardship Project

{Grades K-9}



This is a special assistance program where kid-powered projects connected to watershed protection are completed by a "Blue Team". A Blue Team is a group of kids (could be a classroom, a club, a neighborhood group, or a scout or camp group) who commit to taking on and completing a water-action project in the Puget Sound watershed. The group can choose their own project or use one we suggest. Blue Teams will be provided up to 4 hours of expert help from a Water Specialist.

Water Cycle A and B

{Grades 2-5}



Learn about the stages of one of Earth's most important cycles - the water cycle. Role play the path of a drop of water as it travel through the cycle.

Natural Filters

{Grades 2-6}



Done on schoolyard. Learn how nature filters the water that flows through our ecosystem. Students will participate in a demonstration of how wetlands clean water.

Watershed Ecosystems

{Grades 2-8}



We all live in a watershed, and it is up to us to keep the water that flows through it clean and plentiful. This program introduces students to their own watershed and the plants and animals that share our watershed ecosystem. We will also discover how water is cleaned naturally in our ecosystem, and why we need to do something extra to clean the water

that flows through our human-built environment. Okay to register as a separate program, or, as prerequisite to Watershed Field Experience.

All programs meet the state EALR's and are adapted to grade level.



= Classroom Presentation or Assistance



= Field Experience

Watershed Field Experience

{Grades 2-8}



Pre-requisite: Wetland Ecosystems classroom presentations. Students visit a local park (Cottage Lake or other designated site) and explore a wetland with a naturalist. Students will observe plants and animals in this environment and dip for freshwater invertebrates, which will teach us about the health of our water system.

Aquatic Bugs Dip Field Experience

{Grades 2-12}



Students visit a local water site Pond, lake, or stream) that is accessible and are guided to dip and sort aquatic bugs based on which are water quality indicator species. Students may also participate in water quality tests for oxygen, pH, and temperature.

Watch the Flow, Above and Below

{Grades 3-6}



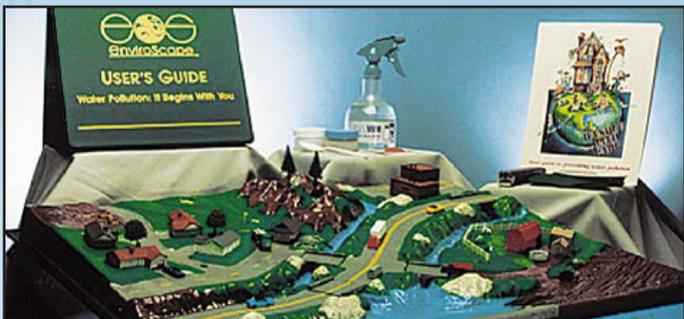
People need to use water wisely as it cycles through our human-built environment. Students will learn how water flows from nature through our cities and towns, and back again. Around here, we have lots of aquifers so we will make those connections as well. We will also learn how to care for our precious water resources.

Salmon Cycle

{Grades 3-12}



Discover the connection between salmon, people and the water we share. Students will explore water quality issues and why healthy salmon habitat is good for people, too!



Enviroscape

{Grades 4-12}



Students work with a table model of a typical community and learn how their everyday choices affect our water quality.



Groundwater

{Grades 4-9}



Did you know that groundwater is an important water source for our local community? Students will explore how groundwater is connected within our larger water system, how our communities access groundwater, and what we can do to protect groundwater.

Water Conservation

{Grades 5-9}



Did you know that our area gets less rain than Miami? Join us for an interactive lesson that will explore what our society can do to conserve our water. Students will learn why we need to save water and what every citizen can do to save water wisely.

Water Supply

{Grades 5-9}



Do you know where your water comes from? Discover where your local water originates and the path it takes to your faucet! Students will explore the human and natural factors that affect our water supply.

Senior Project Assistance

{High School}



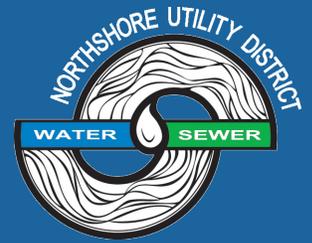
This is a special assistance program to provide one-on-one assistance to students choosing a water stewardship project as their Senior Project. We will provide up to 4 hours of expert help from a Water Specialist to help guide students through their project.

Teachers may schedule a presentation by contacting Nature Vision at 425-836-2697 or email at info@naturevision.org. If you have any questions regarding the programs or other services offered, please contact your water utility representative:

Jessica Guthrie, Northshore Utility District
425-398-4417
jguthrie@nud.net

Deborah Rannfeldt, Woodinville Water District
425-487-4102
drannfeldt@woodinvillewater.com

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Water Cycle Terrariums

[Grades K-3]

Learn about the water cycle and why conservation is important. Build your very own portable water cycle -- a terrarium, complete with a "waterhog" character to remind students to use water wisely!

Water Cycles Round!

[Grades 4-6]

Review the steps of the water cycle, and become a water droplet for an hour. Travel to all the places water goes to during the water cycle, including lakes, rivers, streams, mountains, the ocean, plants, animals and you! Understand simple ways to conserve water at home.

Waterwise Gardening

[Grades 3-5]

Explore how water can be used efficiently in gardens and yards through hands-on activities and an interactive high-energy game. Students will discover how their actions at home and school can have a positive impact on the health of their watershed and water conservation.

Drip Irrigation

[Grades 5-7]

Students will explore how drip irrigation systems can help us use water more efficiently in home and school gardens. Students will experience an example of systems-thinking between natural cycles and human-built environments through interactive games and models.

Watershed Ecosystems

[Grades 2-8]

We all live in a watershed, and it is up to us to keep the water that flows through it clean and plentiful. This program introduces students to their own local watershed and to the plants and animals that share this important ecosystem. Students will also learn how a healthy environment cleans water naturally, and gain insight on the impact of humans on this system. Positive human actions on the combined natural- and human built-environments are discussed. Okay to register as a separate program, or as prerequisite to Watershed Field Experience.

Water Conservation

[Grades 4-9]

Did you know that our area receives less rainfall in the summer months than Miami, Florida? Join us for an interactive lesson that will explore what our community can do to conserve our water indoors and outdoors. Students will learn why we need to save water and what every person can do to use water wisely to help keep more water in our local water bodies for wildlife and future generations.

Water Supply

[Grades 4-9]

Do you know where your drinking water comes from? Discover the path clean water takes from its local natural source to your faucet! Students will explore the human and natural factors that affect our water supply, and what actions they can take to keep this important natural resource pristine as our population grows.

All programs meet the state EALR's and are adapted to grade level.

 = Classroom Presentation or Assistance

 = Field Experience

Salmon Cycle

[Grades K-12]



Discover the connection between Pacific salmon, people, and the water we share. The salmon life cycle and what this keystone species requires from its ecosystem is discussed. Students will explore water quality issues and understand why healthy salmon habitat is good for Northwest ecosystems, and people, too!

Watershed Dynamics (Enviroscape)

[Grades 2-12]



Students will interact with a tabletop model of a typical community to learn how their everyday choices affect the water quality in our watershed. Alternative choices to prevent watershed contamination are discussed.

Watch the Flow, Above and Below

[Grades 4-12]



People need to use water wisely as it cycles through our human-built environment. Students will learn the basic infrastructure of how water flows from nature through our cities and towns and back again, and the impact of human behavior on this water system.

Watershed Field Experience

[Grades K-12, Field]



Students will visit a local lake, wetland, or pond near their school and explore it with a naturalist. Students will observe plants and animals in this environment, examine and identify local freshwater invertebrates, and will learn about the health of our greater watershed systems. Older students may also participate in water quality tests for oxygen, pH, temperature and more. Okay to register as a separate program or as a follow up to Watershed Ecosystems or Watershed Dynamics (Enviroscape).

Aquatic Insects Dip Field Experience

[Grades K-12, Field]



Students visit a local accessible water site (pond, lake, or stream) and examine and identify aquatic insects based on which are water quality indicator species. Older students may also participate in water quality tests for oxygen, pH, temperature and more. This program focuses on the importance of biodiversity within ecosystems and protecting watershed health.

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= Field Experience



Healthy Water, Healthy Soil

[Grades K-3] Elementary



Dig in to healthy soil and discover the living creatures that benefit the soil and plants all around us. Touch and feel the non-living parts of soil, and explore how healthy water keeps our soils in the Northwest healthy.

Healthy Water, Healthy Soil

[Grades 4-5] Elementary



Dig in to healthy soil and discover the living network of decomposers that benefit the ecosystems around us. Explore how healthy water keeps our Northwest soils healthy and understand how humans can impact soil through our interactions with water.

Healthy Water, Healthy Soil

[Grades 6-8] Middle School or Junior High



Through this hands-on lesson, students will gain an understanding of soil function and physical properties. Students will observe soil texture, structure, color, infiltration, test for key nutrients, and analyze soil pollution. Students will connect soil composition with the impact of our daily water choices on the natural environment.

Healthy Water, Healthy Ecosystems

Grades [9-12] High School



Experiment with soils from different watershed ecosystems in Washington, and develop an understanding of what each ecosystem needs to be healthy and sustainable. Conduct an analysis of plant needs and create a restoration plan that matches an appropriate soil within an ecosystem. Determine how soil pollution creates disruptions within these ecosystems.

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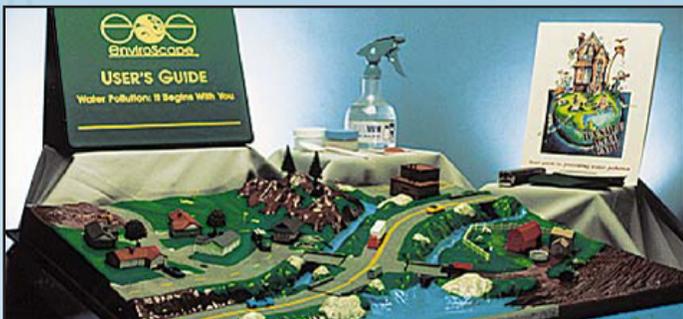
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