

WATER EDUCATION FOR SCHOOLS



Northshore Utility District is offering 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 Educator from Nature Vision.

Program descriptions are offered below. Contact information on back.



Water Cycles

Round! [Grades 4-5]

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 4-8]

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 4-8]

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.

Programs support the Washington State K-12 Learning Standards and STEM Education.

 = 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.



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 and Healthy Water, Healthy Ecosystems are two-part programs for grades 6-12. Please allow for two 50-minute sessions or one block period for each program.

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.

*Healthy Water, Healthy Soil and Healthy Water, Healthy Ecosystems are two-part programs for grades 6-12. Please allow for two 50-minute sessions or one block period for each program.

Programs support the Washington State K-12 Learning Standards and STEM Education.



= Classroom Presentation or Assistance



= Field Experience

To schedule a program, please visit naturevision.org/program-registration. Contact Nature Vision at info@naturevision.org or 425-836-2697 with questions. If you have any questions regarding the programs or other services offered, please contact your water utility representative:

Brian Rivera, Northshore Utility District
425-398-4400
brivera@nud.net