

WATER EDUCATION



Cascade Water Alliance offers fun, hands on lessons for students to explore the fascinating world of water! All lessons are tailored to our region and are offered, free of charge, to schools within the water service areas of Cascade members.

AquaPals **[Grades K-12]**

Are you ready to take it to the next level? Cascade's AquaPals program gives your classroom the resources to take a deep dive into water studies by exploring the value of water through the eyes of students in other parts of the country or the world. An educator will be assigned to create a custom project for your students that aligns with your area of interest and your students' work can be showcased on the AquaPals blog for others to see and study. This is a great opportunity to make a lasting impact and have fun! [Contact us](#) today to learn more or register.



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!

Water Cycles Round **[Grades 4-6]**

Review the steps of the water cycle, and pretend to be a water droplet. Travel to all the places water goes within 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.

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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. We introduce students to their own local watershed and to the plants and animals that share this important ecosystem with us. 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.

Programs are provided by:



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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 all the way 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.

“Toadally” Amphibians

[Grades K-4]

Students study these fascinating creatures who are dependent upon healthy water sources. Discuss the human influences that affect amphibian populations.

Natural Filters

[Grades 2-6]

We will conduct this class in your schoolyard. Learn how nature filters the water that flows through our ecosystem. Students will participate in a demonstration of how wetlands clean water.

All About Groundwater

[Grades 2-8]

Did you know that groundwater is an important water source for our local community? By using a watershed model, students will explore how groundwater is connected within our larger watershed systems, how our communities access groundwater, and what we can do to protect groundwater within the watershed.

**Bring Hands
on Science
Lessons into
Your
Classroom!**



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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.

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.



Global Water Crisis

[Grades 4-5]

Did you know 2.5 billion people worldwide don't have access to clean water and a simple toilet which leads to many life threatening issues? Learn about the tough choices families need to make every day regarding water and how those choices affect their lives. Gain knowledge of how those of us with clean water can conserve it and ensure adequate water supplies for the future. Become aware of what is being done to end the global water crisis and design basic water systems inspired by real world projects that are helping communities around the world have access to safe drinking water and sanitation.

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Healthy Water, Healthy Soil

[Grades K-3]

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

Healthy Water, Healthy Soil

[Grades 4-5]

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

Blue Teams

[Grades K-12]

Blue Teams are customized learning modules taught by a Nature Vision Educator. Each participating classroom completes a stewardship project that raises awareness of the importance of water. Projects may consist of native plant restoration that requires little water, or other water conservation ideas. Blue Teams require a commitment of four to six hours to complete the classroom programs and stewardship project.

Healthy Water, Healthy Soil

[Grades 6-8]

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. We will make connections between soil composition and the impact of our daily water choices on the natural environment.

Healthy Water, Healthy Ecosystems

Grades [9-12]

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.

To schedule programs or field trips, visit naturevision.org/program-registration. Register online or print out the registration form and fax it in per the instructions.