



# Water Education for Schools

## CLASSROOM & FIELD PRESENTATIONS!

The Saving Water Partnership, a collaboration of local water utilities who provide water conservation programs in Seattle and King County, is partnering with Nature Vision to bring innovative programs to your students!

We are very excited to provide FREE programs to your students through this collaboration. These programs support WA State K-12 Learning Standards and STEM education.



PROGRAM:	Grade:												
	K	1	2	3	4	5	6	7	8	9	10	11	12
<b>Water Cycle –Terrariums</b>	■												
<b>Water Cycles Round!</b>					■								
<b>Waterwise Gardening</b>				■									
<b>Drip Irrigation</b>					■								
<b>Watershed Ecosystems</b>			■										
<b>Salmon Cycle</b>	■												
<b>Water Conservation</b>					■								
<b>Water Supply</b>					■								
<b>Watch the Flow, Above &amp; Below</b>					■								
<b>Aquatic Insects Dip Field Experience</b>	■												
<b>Watershed Field Experience</b>	■												
<b>Water Use Exploration</b>			■										
<b>Fix That Leak!</b>					■								
<b>Leaky Faucets &amp; Rates of Flow</b>					■								
<b>Healthy Water, Healthy Soil</b>	■												
<b>Healthy Water, Healthy Ecosystems</b>										■			



**To register, visit [naturevision.org/program-registration](http://naturevision.org/program-registration).**

Register online, by fax, or email.

**Scheduling considerations:** We are available to visit your school between 7:30 AM and 4:00 PM. Please allow one hour for each program if possible. Feel free to schedule programs back to back (10:00, 11:00, 12:00), but if possible please leave 10–15 minutes in between. Pre-registration is required. If you have any questions about our programs please do not hesitate to email [info@naturevision.org](mailto:info@naturevision.org) or call (425) 836-2697.



# Water Education Programs Available

*Programs available consist of in-class and field programs suiting every grade level and multiple learning styles.*

## Water Cycle – Terrariums [K-3]

Evaporation, precipitation, condensation! The water cycle boogie goes up and down! Learn about the water cycle and why conservation is important. Imagine yourself as a water drop older than dinosaurs, and make your very own water cycle terrarium to take home.

## Water Cycles Round! [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 [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 water conservation and the health of their watershed.

## Drip Irrigation [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 that encourage conservation.

## Watershed Ecosystems [2-8]

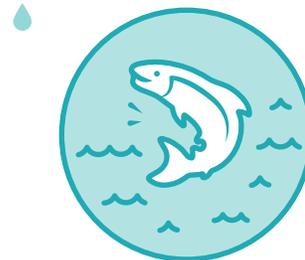
We all live in a watershed, and it is up to us to keep the water that flows through it plentiful and clean. This program introduces students to their own local watershed, to water as a shared resource, and to the plants and animals that share this important ecosystem. Positive human actions that aid conservation in the combined natural and human built-environments are discussed.

## Salmon Cycle [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 how saving water can benefit salmon, and understand why healthy salmon habitat is good for Northwest ecosystems and people, too!

# FREE!

Supports WA State K-12 Learning Standards and STEM Education



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# Water Education Programs Available

## Water Conservation [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 for wildlife and future generations.

## Water Supply [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 and plentiful as our population grows.

## Watch the Flow, Above & Below [3-12]

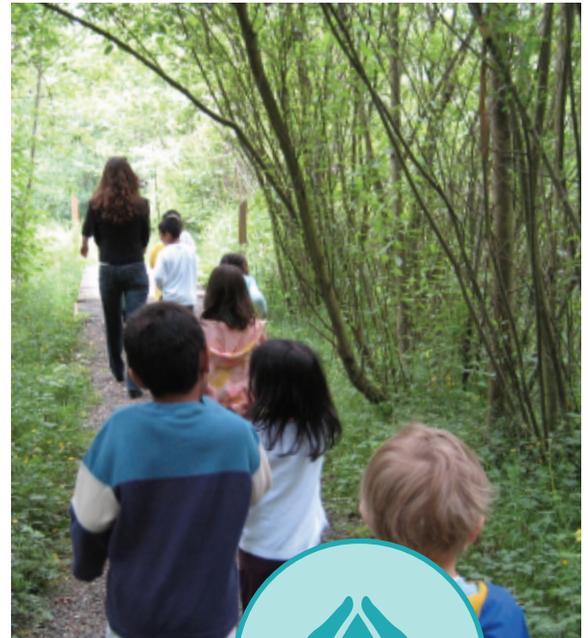
People need to use water wisely as it cycles through our human-built and natural environments. Students will learn the basic infrastructure of how water flows from nature through our cities and towns and back again, and the impact of human behavior on this water system, including ways to save water in their own homes.

## Aquatic Insects Dip Field Experience [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 understanding that water is a shared resource, the importance of biodiversity within ecosystems, and protecting watershed health through conservation efforts.

## Watershed Field Experience [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 conserving high quality water in our greater watershed systems. Older students may also participate in water quality tests for oxygen, pH, temperature and more.



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# Water Education Programs Available

## Water Use Exploration [2-3]

Discover some of the various ways we use water day to day through hands-on activities, and experiment with water to see how leaks waste large amounts of water over time. Students will become familiar with easy ways to save water and learn about other daily waterwise habits.

## Fix That Leak! [4-5]

Discover how much water is represented in the different locations water is found on the planet and see how much water is easily accessible for human use. Students will conduct hands-on experiments and use math concepts to understand the need for waterwise habits that save water in our communities. Finding and fixing leaks will be a focus throughout the program, and students will receive materials to take home for real-world applications.

## Leaky Faucets & Rates of Flow [6-8]

Determine flow rate of the various faucets fixtures by using a scientific approach, and discover waterwise habits that will help save our precious resource. See how leaks can add up to hundreds of gallons of water wasted each year. There is also a second day option where students will conduct hands-on experiments to calculate a portion of the school's water use by identifying variables such as faucet leaks and rate of flow of bathroom faucets. This activity can also be one of the actions that the school completes toward being recognized as a Level Three King County Green School.

## Leaky Faucets & Rate of Flow [9-12]

Use a scientific approach to determine flow rate of the various faucets fixtures by using math concepts to convert units of measurement to ensure accurate results. Discover waterwise habits that will help save our finite resource, and become familiar with how leaks can add up to hundreds of gallons of unnecessary water use each year. There is also a second day option where students will conduct hands-on experiments to calculate a portion of the school's water use by identifying variables such as faucet leaks and rate of flow of bathroom faucets. This activity can also be one of the actions that the school completes toward being recognized as a Level Three King County Green School.

### Teachers, please note...

*Leaky Faucets and Rates of Flow [Grades 6-8 and Grades 9-12] may be registered for as one 50 minute or a two 50 minute session program (or one 90 minute block). The 2nd 50 minute session (or 2nd half of a 90 minute block) is optional and can be one of the actions that the school completes towards being recognized as a Level Three King County Green School.*



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# Water Education Programs Available

## Healthy Water, Healthy Soil [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 non-living parts of soil, and explore how healthy soil helps water conservation efforts.

## Healthy Water, Healthy Soil [4-5]

Dig in to healthy soil and discover the living network of decomposers that benefit the ecosystems around us. Explore how healthy water lessens the need to irrigate and therefore helps conserve water, an important shared resource.

## Healthy Water, Healthy Soil [6-8]

Through this hands-on lesson, students will gain an understanding of soil function and physical properties. Students will observe soil texture, structure, infiltration, and analyze. Students will connect soil composition with the impact of our daily water choices on the natural environment, especially how healthy soil helps water conservation efforts.

## Healthy Water, Healthy Ecosystems [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 quality can impact water quantity and quality within these ecosystems, especially how healthy soil helps water conservation efforts.



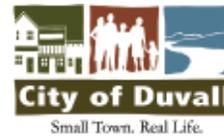
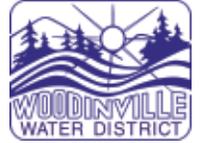
### Teachers, please note...

*Healthy Water, Healthy Soil [Grades 6-8] and Healthy Water Healthy Ecosystems [Grades 9-12] are two sessions programs. You may register for two separate 45-55 minute class periods or one 90 minute block.*

### Programs provided by:



City of Bothell™



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WATER DISTRICT  
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