Stormwater Runoff Education Resource Guide (Elementary)

This guide was created by King County with assistance from Nature Vision to provide unincorporated King County school districts and educators with programs and resources that are applicable to the Stormwater Management Waiver Program.

More importantly, we hope these guides can help educators intrigue, inspire, and engage all our communities in how we are connected to nature.
This guide was created by King County to aid teachers in finding environmental programs that show the relation of ecology, health, clean water and stormwater. We hope these resources will help students connect science and engineering with natural processes.

Related topics include the hydrologic cycle; wetlands, streams, rivers, lakes, and their ecological systems; the effects of urbanization and human impacts on surface water quality and quantity; water pollution; land use effects on runoff and stormwater; the causes and effects of flooding; salmonids; wetland and native plants and their benefits to our waterways; watershed studies; and water and carbon sequestration. Programs will be updated as frequently as possible.

This guide is organized by grade and then “type” of program – the types of programs include teacher resources, classroom visitors, field trips, and projects.

- Teacher resources include lesson plans, kits, and online resources.
- Classroom visitors are informal educators that will travel to your classroom to present a lesson or investigation.
- Field trips include day trips and overnight programs.
- Projects are restoration projects your class can sign up for.

For more information on programs offered by King County, please see the [environmental education programs](https://example.com/education-programs), [solid waste education](https://example.com/solid-waste) page and the [wastewater education](https://example.com/wastewater) page.

To access reports and projects happening within your school’s watershed, please see [this website](https://example.com).

We have included resources for educators on inclusion, diversity, equity and accessibility to engage all students.

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Kindergarten

Remote Learning

These are remote learning options for classrooms or home learning.

King County DNRP: Humans and the Water Cycle

How are we connected to the water cycle? Join us in learning more about water as we read a story, conduct a scientific experiment (with items you can find at home or in the classroom) and find out what we can do each day to help keep our water clean! Humans and the Water Cycle is a pre-taped 45-minute video lesson for grades K-2.

Link: https://kingcounty.gov/services/environment/wastewater/education/resources.aspx

Time: 45 minutes
Cost: No Cost

Burke Museum Virtual Education Programs: Burke LIVE

Have a Burke educator join your class live from our learning studio. Each program includes an interactive discussion or activity related to the topic, a closer look at real Burke collections and a chance for Q&A! You’ll also receive pre- and post-program materials to help prepare your students for the live experience and extend their learning afterwards.

Link: https://www.burkemuseum.org/education/educators-and-schools/virtual-education-programs

Time: 45 minutes
Cost: $90, Cost assistance is available for qualifying schools, organizations, and groups.

Mountain to Sound Greenway Trust: Virtual Education

Mountain to Sound Greenway Trust has a virtual education series of videos and activities to do at home. Topics include: Forest and Fins, Next Generation Stewards, Salmon SEEson, Kokanee Salmon, and alternative ideas to explore nature while staying close to home.

Link: https://mtsgreenway.org/get-involved/education/virtual-education/

Cost: No cost

Nature Vision: Student Packets

Nature Vision has developed seven science packets for K-12 students: Ecological Impacts, Water Quality, Human Systems, Invasive Plants, Ecosystems, Watersheds, and Humans and Water. Each free downloadable packet includes:
1. Teacher Overview
2. Parent/Caregiver Overview
3. Daily Student Science Lessons

Contact: info@naturevision.org

Link: https://naturevision.org/student-packets

Cost: No cost
Nature Vision: Remote Learning and Video Call Programs
Nature Vision has adapted many of our most popular in-class programs into two virtual formats for increased accessibility! We now offer synchronous full-length video call programs and asynchronous remote curriculum program options for teachers, parents, and caregivers to use during the upcoming school year. These programs are designed to accommodate both fully remote and hybrid teaching options for each school district Nature Vision serves. The programs are flexible to best fit teachers’ schedules, student needs, and current WA State K-12 Learning Standards with STEM education as a central focus. Each full-length video call program is 45-60 minutes live with one of our educators. Each remote learning program includes videos of our engaging Nature Vision Educators, detailed instructions for teachers/parents/caregivers to lead interactive activities, and a live Q&A session with an educator.
Link: https://naturevision.org/remote-learning-programs
Time: Roughly 1 hour between videos, activities, and Q&A sessions
Cost: Free for most schools. Otherwise $85-$90
Note: Free programs are available to most schools, please email info@naturevision.org for more information. Nature Vision also offers classroom programs, field trips, and projects.

Seattle Aquarium: Digital Learning Opportunities
All of our programs focus on the marine ecosystems of the Pacific Northwest. Our educators will guide you and up to 32 of your students over video conferencing software through lessons that support Next Generation Science Standards while giving your students agency to influence the class based on their prior knowledge and interests. Each of our classes has a grade level range, and within that range our skilled educators will tailor the class for your specific grade level. Many classes also include special live animal interactions with the tide pool creatures in our care.
Link: https://www.seattleaquarium.org/distance-learning
Time: 45 minutes
Cost: $150, Scholarships available for those eligible.

Classroom Visitors
These programs are taught by an informal educator from various organizations in your classroom.

Eastside Audubon: Classroom Workshops
These workshops teach K-12 students what makes a bird a bird and how to identify common birds seen in our area. Each workshop is on a different topic and has specific activities included. Workshop topics include: Introduction to Birds, Bird Identification, Using Binoculars, Bird Beaks and Food, and more!
Contact: youthprograms@eastsideaudubon.org  
Link: https://www.eastsideaudubon.org/youth-education  
Time: Depends on workshop topic  
Cost: No cost  
Note: Can be adapted by the volunteer to address stormwater runoff effects specifically. Programs are offered in communities from Bellevue to Woodinville/Bothell and from East Lake Washington to North Bend.

*Environmental Science Center: Beach Heroes  
The Beach Heroes program introduces K-3 students to the local Puget Sound beach habitat and the organisms that live there. During the introductory classroom visit, students will learn beach etiquette and stewardship while learning about the adaptations of the marine invertebrates residing in Puget Sound. During this Next Generation Science Standards-correlated lesson, students will create field guides they will use during their field study. The 1-2 hour field study features both naturalist-led beach exploration and structured activities, during which students will learn all about the habitat restoration of Seahurst Beach! After participating in ESC's Beach Heroes program, students pledge to adopt three behaviors to protect, to conserve, and to educate others about our oceans and marine debris. To honor these students' commitment to environmental stewardship, they receive an Official Beach Hero identification card.  
Contact: Kelly@environmentalsciencecenter.org or Programs@environmentalsciencecenter.org or 206-248-4266  
Link: https://envsciencecenter.org/programs/beach-heroes/  
Time: 45-minute virtual introduction lesson (1 hour in person) + 1 hour virtual field lesson (2 hours in-person) + optional supplemental videos and activities; an additional 45-60 minutes for the Advanced Beach Heroes option  
Cost: None for the 2021 season. (Previously: Schools with more than 75% of students qualifying for Free or Reduced Priced Meals (FRPM) - No Charge; Schools with 45-75% students qualifying for FRPM - $50 per class of 30 students; Schools with less than 45% of students qualifying for FRPM - $150 per class of 30 students)  
Transportation: When not virtual, partial transportation reimbursements are available for schools where more than 45% of students qualify for FRPM  
Note: Offered April-June  
*The 2021 season will be virtual due to COVID-19. Please check the website for the most up-to-date information.

Friends of the Issaquah Salmon Hatchery (FISH): Those Amazing Salmon  
This popular presentation consists of a 20- to 30-minute slide show and discussion, followed by acting out the salmon life cycle and sharing time. After the slide show, teachers have the option of a watershed activity, quiz game, or Native American legend activity for their class.  
Contact: education@issaquahfish.org or 425-393-1118
Link: www.issaquahfish.org/teachers-school-programs/
Time: 40-60 minutes
Cost: $50 per class request in King County, $75 request out of King County
Note: Will still accept schools that cannot afford the fees. Ideally, a class receives the presentation prior to a visit to the hatchery. The program is available year round. FISH also offers field trips.

Nature Vision: Watershed Programs
A Nature Vision educator will visit your classroom to facilitate hands-on lessons that highlight the challenges our local watershed faces with stormwater runoff. Each hour-long lesson focuses on specific concepts related to stormwater. Lessons can stand alone or be combined into units that offer a more complete picture of stormwater. Units can be for one grade level or used to scaffold throughout multiple grade levels at a school. Every lesson is designed to support WA State K-12 Learning Standards and help students understand what they can do to reduce the effects of stormwater runoff.
Link: https://naturevision.org/school-programs/
Time: 45-60 minutes
Cost: Free for most schools. Otherwise $110 per in-person lesson, $85-90 for remote
Note: Free programs are available to most schools, please email info@naturevision.org for more information. Nature Vision also offers field trips and projects. Nature Vision can also provide classroom programs virtually over video call at 45-60 minutes.

Vashon Nature Center: Nature Presentations
Trained scientists and naturalists offer in-class and outdoor programs designed to foster student awareness and understanding of environmental science topics relevant to their community and tied to global issues. Programs are tailored to suit teachers' classroom teaching goals and align with Next Generation Science Standards.
Contact: info@vashonnaturecenter.org or 206-755-5798
Link: http://vashonnaturecenter.org/what-we-do/scientists-in-schools/
Time: 30-90 minutes
Cost: $50-$150
Note: Areas of focus address the natural history of the Salish Sea and Pacific Northwest. Examples include: watershed education, stormwater management, phenology, freshwater macroinvertebrates, salmon, amphibians, intertidal studies, forage fish, shoreline restoration, biodiversity studies, and methods in field research.

Field Trips

King County: Salmon SEEson
During the fall, salmon return to streams and rivers around the Puget Sound. Spot the spawners in the Lake Washington/Cedar/Sammamish and Green/Duwamish and Central Puget Sound watersheds from September to mid-December. Salmon SEEson provides
information to help you spy these natural beauties at various times and locations as they make their seasonal journey home each year. Many locations have staff or volunteer naturalists on hand to point out salmon; some are self-guided locations.

Contact: Laura West at lwest@kingcounty.gov or 206-477-7574
Link: www.govlink.org/watersheds/8/action/salmon-seeson/default.aspx
Time: 15-60 minutes
Cost: No Cost
Transportation: Qualifying schools can access free bus transportation through the Wheels to Water program
Note: Flyers, poster, and a website are available to help you find the best time and location for you and your class to see spawning salmon. King County also offers teacher resources, in-class lessons, and projects.

Camp Fire Seattle: Camp Sealth
Encompassing 400 incredible acres including an extensive trail system, a private beach and numerous diverse ecosystems, Camp Sealth is the perfect venue for experiential education. Camp Fire was established with a strong foundation in providing positive outdoor experiences for youth and it is fundamental to their mission, core values, and programs. We believe in the power of nature to awaken a child’s senses, curiosity, and desire to learn. With a completely inquiry-based program, our students are taught to study and evaluate the natural world. Through hands-on learning, they develop a deeper understanding of the scientific method and we hope – a curiosity and love for the environment. Camp Sealth serves grades K-12 for our Outdoor Education, Retreats, and Day Programs and can create customizable schedules that meet current educational standards by grade level.

Contact: Josh Cunningham at joshc@campfireseattle.org
Link: https://campfireseattle.org/outdoor-education/
Time: Program offered September-June. Typical program is 3 days, 2 nights. Can do both 1 night and weeklong programs as well.
Cost: $56 per student per night, $48 per adult per night
Transportation: https://campfireseattle.org/camp-sealth-overnight-camp/all-about-camp-sealth/transportation/
Note: In addition to the Outdoor Education program, Camp Sealth and Camp Fire Central Puget Sound offers rentals of our site for other non-profit groups, over ten community based day camps in various locations in King County during the summer months, summer resident camp at our Camp Sealth site, and community based group programing at various locations in King County. For more information about these programs please contact Michael McGrath at the Seattle office at michaelm@campfireseattle.org.

*Environmental Science Center: Beach Heroes
The Beach Heroes program introduces K-3 students to the local Puget Sound beach habitat and the organisms that live there. During the introductory classroom visit,
students will learn beach etiquette and stewardship while learning about the adaptations of the marine invertebrates residing in Puget Sound. During this Next Generation Science Standards-correlated lesson, students will create field guides they will use during their field study. The 1-2 hour field study features both naturalist-led beach exploration and structured activities, during which students will learn all about the habitat restoration of Seahurst Beach! After participating in ESC's Beach Heroes program, students pledge to adopt three behaviors to protect, to conserve, and to educate others about our oceans and marine debris. To honor these students' commitment to environmental stewardship, they receive an Official Beach Hero identification card.

Contact: Kelly@environmentalsciencecenter.org or Programs@environmentalsciencecenter.org or 206-248-4266
Link: https://envsciencecenter.org/programs/beach-heroes/
Time: 45-minute virtual introduction lesson (1 hour in person) + 1 hour virtual field lesson (2 hours in-person) + optional supplemental videos and activities; an additional 45-60 minutes for the Advanced Beach Heroes option
Cost: None for the 2021 season. (Previously: Schools with more than 75% of students qualifying for Free or Reduced Priced Meals (FRPM) - No Charge; Schools with 45-75% students qualifying for FRPM - $50 per class of 30 students; Schools with less than 45% of students qualifying for FRPM - $150 per class of 30 students)
Transportation: When not virtual, partial transportation reimbursements are available for schools where more than 45% of students qualify for FRPM
Note: Offered April-June

*The 2021 season will be virtual due to COVID-19. Please check the website for the most up-to-date information.*

*Friends of the Issaquah Salmon Hatchery (FISH): Those Amazing Salmon - Hatchery Tours
Come see the salmon at Issaquah Creek! Watch spawning salmon, see the hatchery in action, and learn about challenges salmon face and what we can do to help them. Scheduled groups of students and adults are led through the hatchery by trained volunteer docents.
Contact: education@issaquahfish.org or 425-392-1118
Link: https://www.issaquahfish.org/2021-guided-tours/
Time: Tours last 45 minutes to one hour and are available primarily mid-September through early November
Cost: FISH requests a fee of $2 per student when possible.
Transportation: Please contact.
Note: The tour, ideally in conjunction with the Those Amazing Salmon classroom presentation, helps fulfill the state mandate to provide environmental education experiences to students and is aligned to Washington State standards in science and social studies.*
*Hatchery grounds are currently closed to the public. Guided tours are permitted with a reservation. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Friends of Soos Creek (Kent): Interpretive Walk
Friends of Soos Creek Park is a non-profit organization comprised of volunteer members who take a pro-active role in preserving and extending the Soos Creek Trail Park and who sponsor and lead park clean-ups and interpretive walks for public education about the importance of wetlands and undisturbed nature. Soos Creek Park is one of south King County's prized wetland habitats. An 8.5 mile trail follows the creek through cattail marshes, forested swamps, wet meadows and willow thickets. This trail is suited to all levels of fitness and is wheelchair accessible. Take any or all of the interpretive walks to learn more about this fascinating area and its wildlife residents. Volunteers from The Friends of Soos Creek Park lead these interpretive walks.

**Contact:** Kent Parks and Recreation: 253-856-5000 or Covington Parks and Recreation: 253-480-2480

**Link:** [https://www.facebook.com/FriendsOfSoosCreekPark/](https://www.facebook.com/FriendsOfSoosCreekPark/)

**Time:** Variable

**Transportation:** Please contact for details

**Note:** All of the walks take place outdoors, so be sure to dress for the weather

*Mercer Slough Environmental Education Center: Habitat Wonderers
Lab: Students become familiar with the science terms, “organism,” “habitat,” and “adaptation” before getting hands-on experience searching for and catching Aquatic Macroinvertebrates from the pond samples. After, they have a unique experience looking at the pond creatures under a projector microscope to really bring those adaptations to life.

Hike: Educators show students a new way of exploring habitats by practicing observation skills in both a forest and a wetland. Students are challenged to find different examples of food, water and shelter in a group scavenger hunt. If there is enough time, groups can get any extra energy out playing an organism game.

**Contact:** Elley Vanderline at evanderline@pacsci.org or 425-450-0207

**Link:** [https://www.pacificsciencecenter.org/mercer-slough/teachers-school-groups/](https://www.pacificsciencecenter.org/mercer-slough/teachers-school-groups/)

**Time:** 3 hours, including a 30-minute lunch

**Cost:** $202 for up to 16 students, $328 for 17-32 students.

Financial assistance and a sliding scale pricing model are available. Email edprograms@pacsci.org to find out if your school qualifies.

**Transportation:** Please contact for details

**Note:** Programs require a ratio of one chaperone per 16 students. Adults are free of charge. Limited financial assistance is available for qualifying schools!

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*
*Mercer Slough Environmental Education Center: Soil Adventures
Lab: Students discover for themselves just how important soil is to human food sources, and learn to describe the soil cycle with all of the different soil makers. After this, they sift through soil samples and collect Soil Macroinvertebrates to look at under a video microscope.
Hike: The hike takes students through a forest and wetland habitat and allows them to observe the differences in the soils in each place. They learn to draw connections between all of the different ways decomposition can happen during a group scavenger hunt, and get their energy out playing a soil tagging game.
Contact: Elley Vanderline at evanderline@pacsci.org or 425-450-0207
Link: https://www.pacificsciencecenter.org/mercer-slough/teachers-school-groups/
Time: 3 hours, including a 30-minute lunch
Cost: $202 for up to 16 students, $328 for 17-32 students.
Financial assistance and a sliding scale pricing model are available. Email edprograms@pacsci.org to find out if your school qualifies.
Transportation: Please contact for details
Note: Programs require a ratio of one chaperone per 16 students. Adults are free of charge. Limited financial assistance is available for qualifying schools!
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Nature Vision: Stream and Wetland Connections
These are 2-part programs. Stream Connections: a Nature Vision educator will lead an in-class discussion and field trip at your local stream while facilitating a variety of activities related to salmon and the effects of stormwater. Wetland Connections: a Nature Vision educator will lead an in-class discussion and field trip at your local wetland, retention pond, or location of your choice to facilitate activities that show the importance of these unique ecosystems in helping manage the effects of stormwater runoff. All activities support WA State K-12 Learning Standards and are customized to the watershed in which the stream or wetland is located. This allows students to make connections to their local environment and learn how they can become stewards where it matters to them most.
Link: https://naturevision.org/school-programs/
Time: 1-2 hours
Cost: $220 per 2 part program. May also register for one part for $110.
Transportation: Must provide own transportation.
Note: Free programs may be available, please email info@naturevision.org for more information. Nature Vision also offers in-class lessons and projects.

*Seattle Aquarium: Salmon Exploration
Learn about the life cycle of Seattle's most iconic animal, the salmon. With the use of storyboards and interactive activities, students will explore salmon from egg to adult and discuss the many different factors that affect these amazing fish. (Max class size 32)
Link: https://www.seattleaquarium.org/site-classroom-programs
Time: 60 minutes
Cost: $10 each (This is the price of aquarium admission for adults and youth 4 and up)
Transportation: Please contact.
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Seattle Aquarium: Orcas, Otters, and Friends
Students will learn about five local marine mammals: sea otters, seals, sea lions, orcas and baleen whales. Using a combination of movement, discussion, and song, students will discover what makes these animals unique and how they survive in an ocean habitat. Circle time is followed by free-choice exploration that includes handling pelts and bones, magnet board/puppet play, books, puzzles, a vet station and a letter-matching activity. (Max class size 32)
Link: https://www.seattleaquarium.org/site-classroom-programs
Time: 30 minutes
Cost: $10 each (This is the price of aquarium admission for adults and youth 4 and up)
Transportation: Please contact.
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Seattle Aquarium: Sea Stars, Urchins and Friends
Meet five different Puget Sound seashore animals: sea stars, sea urchins, hermit crabs, sea anemones and clams. Through discussion, movement and song, students will learn fun facts about the animals and their habitat while reviewing colors and numbers. Explore even more during the free-choice activity time that includes a live animal station, magnet board and puppet play, a reading and puzzle corner, and a letter-matching activity. This introductory marine science program is perfect for kindergarten classes, preschools, Head Start classes, day care centers and other groups of young children.
Link: https://www.seattleaquarium.org/site-classroom-programs
Time: 30 minutes
Cost: $10 each (This is the price of aquarium admission for adults and youth 4 and up)
Transportation: Please contact.
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Seattle Aquarium: Hands-on Tide Pool Exploration
Get up close and hands on with live tide pool animals. Through the use of puppets, live animals and discussion, students will learn about how these animals survive in their ever-changing habitat and how simple actions can help protect them.
Link: https://www.seattleaquarium.org/site-classroom-programs
Time: 60 minutes
Cost: $10 each (This is the price of aquarium admission for adults and youth 4 and up)
Transportation: Please contact.
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Seattle Parks and Recreation: Camp Long

Bringing science, environmental education, and experiential learning to your parks. Seattle Parks and Recreation’s Environmental Education and Outdoor Learning staff provide opportunities for grades K-12 and organized groups, such as scouts and camps, to experience age-appropriate, hands-on adventures in learning about natural communities in an urban setting. Programs align with WA State Essential Academic Learning Requirements for core content areas and support science kits.

Ponds (spring and summer only): Experience the freshwater habitats of a city park at Camp Long or Discovery Park. Waddling ducks, wriggling tadpoles, and dancing dragonflies are some of the creatures they may see as they explore what makes these places so special.

Forest: Camp Long and Discovery Park have lots of forest habitat to explore. Venture through the trees looking for clues to animal habits, hiding places, and seasonal happenings. Forest programs empower participants to feel comfortable in the outdoors.

Link: https://www.seattle.gov/parks/find/centers/camp-long/camps
Transportation: Please contact.

*Not offering Nature Camps for the 2021 season, planning to reopen in 2022. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Projects

Nature Vision: Blue Teams

Nature Vision offers Blue Teams, a student stewardship project funded by our water sponsors. Blue Teams are groups of kindergarten-12th grade students who commit to taking on and completing a watershed stewardship project. Students complete projects such as invasive plant removal, native plant restoration, planting water-wise gardens, finding and fixing leaks, and much more.

The Blue Team program was developed to educate local youth about water resources and related ecosystems, foster sustainable stewardship values and practices in the community through hands-on youth projects, and to empower youth to take positive steps to improve their local environment.

Blue Teams receive Nature Vision’s help in planning, preparing for, and executing their projects at school or at an off-campus project site, as well as regular teacher consultations via phone or email. Teachers/Instructors may register their class or youth group to become a team, and Nature Vision staff will help each team to design a
watershed stewardship project. Staff will visit the students multiple times to teach inquiry-based programs, giving the students the knowledge and help they will need to successfully complete and understand the value of their project.

**Link:** [https://naturevision.org/blue-teams](https://naturevision.org/blue-teams)

**Time:** Variable

**Cost:** Free Blue Teams may be available, please email [info@naturevision.org](mailto:info@naturevision.org) for more information.

**Transportation:** Must provide own transportation.

**Note:** Blue Teams now have virtual options.
1st Grade

Remote Learning

These are remote learning options for classrooms or home learning.

King County DNRP: Humans and the Water Cycle
How are we connected to the water cycle? Join us in learning more about water as we read a story, conduct a scientific experiment (with items you can find at home or in the classroom) and find out what we can do each day to help keep our water clean! Humans and the Water Cycle is a pre-taped 45-minute video lesson for grades K-2.
Link: https://kingcounty.gov/services/environment/wastewater/education/resources.aspx
Time: 45 minutes
Cost: No Cost

Burke Museum Virtual Education Programs: Burke LIVE
Have a Burke educator join your class live from our learning studio. Each program includes an interactive discussion or activity related to the topic, a closer look at real Burke collections and a chance for Q&A! You’ll also receive pre- and post-program materials to help prepare your students for the live experience and extend their learning afterwards.
Link: https://www.burkemuseum.org/education/educators-and-schools/virtual-education-programs
Time: 45 mins
Cost: $90, Cost assistance is available for qualifying schools, organizations, and groups.

Mountain to Sound Greenway Trust: Virtual Education
Mountain to Sound Greenway Trust has a virtual education series of videos and activities to do at home. Topics include: Forest and Fins, Next Generation Stewards, Salmon SEEson, Kokanee Salmon, and alternative ideas to explore nature while staying close to home.
Link: https://mtsgreenway.org/get-involved/education/virtual-education/
Cost: No cost

Nature Vision: Student Packets
Nature Vision has developed seven science packets for K-12 students: Ecological Impacts, Water Quality, Human Systems, Invasive Plants, Ecosystems, Watersheds, and Humans and Water. Each free downloadable packet includes:
Contact: info@naturevision.org
Link: https://naturevision.org/student-packets
Cost: No cost
Nature Vision: Remote Learning and Video Call Programs
Nature Vision has adapted many of our most popular in-class programs into two virtual formats for increased accessibility! We now offer synchronous full-length video call programs and asynchronous remote curriculum program options for teachers, parents, and caregivers to use during the upcoming school year. These programs are designed to accommodate both fully remote and hybrid teaching options for each school district Nature Vision serves. The programs are flexible to best fit teachers’ schedules, student needs, and current WA State K-12 Learning Standards with STEM education as a central focus. Each full-length video call program is 45-60 minutes live with one of our educators. Each remote learning program includes videos of our engaging Nature Vision Educators, detailed instructions for teachers/parents/caregivers to lead interactive activities, and a live Q&A session with an educator.
Link: https://naturevision.org/remote-learning-programs
Time: Roughly 1 hour between videos, activities, and Q&A sessions
Cost: Free for most schools. Otherwise $85-$90
Note: Free programs are available to most schools, please email info@naturevision.org for more information. Nature Vision also offers classroom programs, field trips, and projects.

Seattle Aquarium: Digital Learning Opportunities
All of our programs focus on the marine ecosystems of the Pacific Northwest. Our educators will guide you and up to 32 of your students over video-conferencing software through lessons that support Next Generation Science Standards while giving your students agency to influence the class based on their prior knowledge and interests. Each of our classes has a grade level range, and within that range, our skilled educators will tailor the class for your specific grade level. Many classes also include special live animal interactions with the tide pool creatures in our care.
Link: https://www.seattleaquarium.org/distance-learning
Time: 45 minutes
Cost: $150, Scholarships available for those eligible.

Classroom Visitors
These programs are taught by an informal educator from various organizations in your classroom.

City of Duvall: Surface Water Management Classroom Visitor
Larissa Polanco, Assistant City Engineer. Discussion adapted to what you are teaching in the classroom.
Contact: Larissa Polanco at larissa.polanco@duvallwa.gov and 425-788-3434 ext. 8040
Link: http://www.duvallwa.gov/305/sewer-water-stormwater
City of Newcastle: Surface Water Management Classroom Visitor
The Surface Water Program Manager can speak to your class about surface water management, with an emphasis on what you are currently talking about in the classroom.
Contact: Audrie Starsy at audries@newcastlewa.gov or 425-649-4444 ext. 111
Link: http://newcastlewa.gov/departments/public_works/surface_water_management/

Eastside Audubon: Classroom Workshops
These workshops teach K-12 students what makes a bird a bird and how to identify common birds seen in our area. Each workshop is on a different topic and has specific activities included. Workshop topics include: Introduction to Birds, Bird Identification, Using Binoculars, Bird Beaks and Food, and more!
Contact: youthprograms@eastsideaudubon.org
Link: https://www.eastsideaudubon.org/youth-education

*Environmental Science Center: Beach Heroes
The Beach Heroes program introduces K-3 students to the local Puget Sound beach habitat and the organisms that live there. During the introductory classroom visit, students will learn beach etiquette and stewardship while learning about the adaptations of the marine invertebrates residing in Puget Sound. During this Next Generation Science Standards-correlated lesson, students will create field guides they will use during their field study. The 1-2 hour field study features both naturalist-led beach exploration and structured activities, during which students will learn all about the habitat restoration of Seahurst Beach! After participating in ESC's Beach Heroes program, students pledge to adopt three behaviors to protect, to conserve, and to educate others about our oceans and marine debris. To honor these students' commitment to environmental stewardship, they receive an Official Beach Hero identification card.
Contact: Kelly@environmentalsciencecenter.org or Programs@environmentalsciencecenter.org or 206-248-4266
Link: https://envsciencecenter.org/programs/beach-heroes/
**Time:** 45-minute virtual introduction lesson (1 hour in person) + 1 hour virtual field lesson (2 hours in-person) + optional supplemental videos and activities; an additional 45-60 minutes for the Advanced Beach Heroes option  
**Cost:** None for the 2021 season. (Previously: Schools with more than 75% of students qualifying for Free or Reduced Priced Meals (FRPM) - No Charge; Schools with 45-75% students qualifying for FRPM - $50 per class of 30 students; Schools with less than 45% of students qualifying for FRPM - $150 per class of 30 students)  
**Transportation:** When not virtual, partial transportation reimbursements are available for schools where more than 45% of students qualify for FRPM  
**Note:** Offered April-June

*The 2021 season will be virtual due to COVID-19. Please check the website for the most up-to-date information.*

Friends of the Issaquah Salmon Hatchery (FISH): Those Amazing Salmon  
This popular presentation consists of a 20- to 30-minute slide show and discussion, followed by acting out the salmon life cycle and sharing time. After the slide show, teachers have the option of a watershed activity, quiz game, or Native American legend activity for their class.  
**Contact:** education@issaquahfish.org or 425-393-1118  
**Link:** [www.issaquahfish.org/teachers-school-programs/](http://www.issaquahfish.org/teachers-school-programs/)  
**Time:** 40-60 minutes  
**Cost:** $50 per class request in King County, $75 request out of King County  
**Note:** Will still accept schools that cannot afford the fees. Ideally, a class receives the presentation prior to a visit to the hatchery. The program is available year round. FISH also offers field trips.

Nature Vision: Watershed Programs  
A Nature Vision educator will visit your classroom to facilitate hands-on lessons that highlight the challenges our local watershed faces with stormwater runoff. Each hour-long lesson focuses on specific concepts related to stormwater. Lessons can stand alone or be combined into units that offer a more complete picture of stormwater. Units can be for one grade level or used to scaffold throughout multiple grade levels at a school. Every lesson is designed to support WA State K-12 Learning Standards and help students understand what they can do to reduce the effects of stormwater runoff.  
**Link:** [https://naturevision.org/school-programs/](https://naturevision.org/school-programs/)  
**Time:** 45-60 minutes  
**Cost:** Free for most schools. Otherwise $110 per in-person lesson, $85-90 for remote  
**Note:** Free programs are available to most schools, please email info@naturevision.org for more information. Nature Vision also offers field trips and projects. Nature Vision can also provide classroom programs virtually over video call at 45-60 minutes.

Vashon Nature Center: Nature Presentations
Trained scientists and naturalists offer in-class and outdoor programs designed to foster student awareness and understanding of environmental science topics relevant to their community and tied to global issues. Programs are tailored to suit teachers' classroom teaching goals and align with Next Generation Science Standards.

Contact: info@vashonnaturecenter.org or 206-755-5798

Link: http://vashonnaturecenter.org/what-we-do/scientists-in-schools/

Time: 30-90 minutes

Cost: $50-$150

Note: Areas of focus address the natural history of the Salish Sea and Pacific Northwest. Examples include: watershed education, stormwater management, phenology, freshwater macroinvertebrates, salmon, amphibians, intertidal studies, forage fish, shoreline restoration, biodiversity studies, and methods in field research.

Field Trips

King County: Salmon SEEson
During the fall, salmon return to streams and rivers around the Puget Sound. Spot the spawners in the Lake Washington/Cedar/Sammamish and Green/Duwamish and Central Puget Sound watersheds from September to mid-December. Salmon SEEson provides information to help you spy these natural beauties at various times and locations as they make their seasonal journey home each year. Many locations have staff or volunteer naturalists on hand to point out salmon; some are self-guided locations.

Contact: Laura West at lwest@kingcounty.gov or 206-477-7574

Link: www.govlink.org/watersheds/8/action/salmon-seeson/default.aspx

Time: 15-60 minutes

Cost: No Cost

Transportation: Qualifying schools can access free bus transportation through the Wheels to Water program

Note: Flyers, poster, and a website are available to help you find the best time and location for you and your class to see spawning salmon. King County also offers teacher resources, in-class lessons, and projects.

Camp Fire Seattle: Camp Sealth
Encompassing 400 incredible acres including an extensive trail system, a private beach and numerous diverse ecosystems, Camp Sealth is the perfect venue for experiential education. Camp Fire was established with a strong foundation in providing positive outdoor experiences for youth and it is fundamental to their mission, core values, and programs. We believe in the power of nature to awaken a child’s senses, curiosity, and desire to learn. With a completely inquiry-based program, our students are taught to study and evaluate the natural world. Through hands-on learning, they develop a deeper understanding of the scientific method and we hope – a curiosity and love for the environment. Camp Sealth serves grades K-12 for our Outdoor Education, Retreats,
and Day Programs and can create customizable schedules that meet current educational standards by grade level.

Contact: Josh Cunningham at joshc@campfireseattle.org

Link: https://campfireseattle.org/outdoor-education/

Time: Program offered September-June. Typical program is 3 days, 2 nights. Can do both 1 night and week-long programs as well.

Cost: $56 per student per night, $48 per adult per night

Transportation: https://campfireseattle.org/camp-sealth-overnight-camp/all-about-camp-sealth/transportation/

Note: In addition to the Outdoor Education program, Camp Sealth and Camp Fire Central Puget Sound offers rentals of our site for other non-profit groups, over ten community based day camps in various locations in King County during the summer months, summer resident camp at our Camp Sealth site, and community based group programing at various locations in King County. For more information about these programs please contact Michael McGrath at the Seattle office at michaelm@campfireseattle.org.

*Environmental Science Center: Beach Heroes

The Beach Heroes program introduces K-3 students to the local Puget Sound beach habitat and the organisms that live there. During the introductory classroom visit, students will learn beach etiquette and stewardship while learning about the adaptations of the marine invertebrates residing in Puget Sound. During this Next Generation Science Standards-correlated lesson, students will create field guides they will use during their field study. The 1-2 hour field study features both naturalist-led beach exploration and structured activities, during which students will learn all about the habitat restoration of Seahurst Beach! After participating in ESC's Beach Heroes program, students pledge to adopt three behaviors to protect, to conserve, and to educate others about our oceans and marine debris. To honor these students' commitment to environmental stewardship, they receive an Official Beach Hero identification card.

Contact: Kelly@environmentalsciencecenter.org or Programs@environmentalsciencecenter.org or 206-248-4266

Link: https://envsciencecenter.org/programs/beach-heroes/

Time: 45-minute virtual introduction lesson (1 hour in person) + 1 hour virtual field lesson (2 hours in-person) + optional supplemental videos and activities; an additional 45-60 minutes for the Advanced Beach Heroes option

Cost: None for the 2021 season. (Previously: Schools with more than 75% of students qualifying for Free or Reduced Priced Meals (FRPM) - No Charge; Schools with 45-75% students qualifying for FRPM - $50 per class of 30 students; Schools with less than 45% of students qualifying for FRPM - $150 per class of 30 students)

Transportation: When not virtual, partial transportation reimbursements are available for schools where more than 45% of students qualify for FRPM

Note: Offered April-June
*The 2021 season will be virtual due to COVID-19. Please check the website for the most up-to-date information.

*Friends of the Issaquah Salmon Hatchery (FiSH): Those Amazing Salmon - Hatchery Tours
Come see the salmon at Issaquah Creek! Watch spawning salmon, see the hatchery in action, and learn about challenges salmon face and what we can do to help them. Scheduled groups of students and adults are led through the hatchery by trained volunteer docents.
Contact: education@issaquahfish.org or 425-392-1118
Link: https://www.issaquahfish.org/2021-guided-tours/
Time: Tours last 45 minutes to one hour and are available primarily mid-September though early November
Cost: FiSH requests a fee of $2 per student when possible.
Transportation: Please contact.
Note: The tour, ideally in conjunction with the Those Amazing Salmon classroom presentation, helps fulfill the state mandate to provide environmental education experiences to students and is aligned to Washington State standards in science and social studies.
*Hatchery grounds are currently closed to the public. Guided tours are permitted with a reservation. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Friends of Soos Creek (Kent): Interpretive Walk
Friends of Soos Creek Park is a non-profit organization comprised of volunteer members who take a pro-active role in preserving and extending the Soos Creek Trail Park and who sponsor and lead park clean-ups and interpretive walks for public education about the importance of wetlands and undisturbed nature. Soos Creek Park is one of south King County's prized wetland habitats. An 8.5 mile trail follows the creek through cattail marshes, forested swamps, wet meadows and willow thickets. This trail is suited to all levels of fitness and is wheelchair accessible. Take any or all of the interpretive walks to learn more about this fascinating area and its wildlife residents. Volunteers from The Friends of Soos Creek Park lead these interpretive walks.
Contact: Kent Parks and Recreation: 253-856-5000 or Covington Parks and Recreation: 253-480-2480
Link: https://www.facebook.com/FriendsOfSoosCreekPark/
Time: Variable
Transportation: Please contact for details
Note: All of the walks take place outdoors, so be sure to dress for the weather

*Mercer Slough Environmental Education Center: Soil Adventures
Lab: Students discover for themselves just how important soil is to human food sources, and learn to describe the soil cycle with all of the different soil makers. After this, they
sift through soil samples and collect Soil Macroinvertebrates to look at under a video microscope.

Hike: The hike takes students through a forest and wetland habitat and allows them to observe the differences in the soils in each place. They learn to draw connections between all of the different ways decomposition can happen during a group scavenger hunt, and get their energy out playing a soil tagging game.

Contact: Elley Vanderline at evanderline@pacsci.org or 425-450-0207

Link: https://www.pacificsciencecenter.org/mercer-slough/teachers-school-groups/

Time: 3 hours, including a 30-minute lunch

Cost: $202 for up to 16 students, $328 for 17-32 students.

Financial assistance and a sliding scale pricing model are available. Email edprograms@pacsci.org to find out if your school qualifies.

Transportation: Please contact for details

Note: Programs require a ratio of one chaperone per 16 students. Adults are free of charge. Limited financial assistance is available for qualifying schools!

*Please check the website for most up-to-date information regarding closures or modifications due to COVID-19.

Nature Vision: Stream and Wetland Connections

These are 2-part programs. Stream Connections: a Nature Vision educator will lead an in-class discussion and field trip at your local stream while facilitating a variety of activities related to salmon and the effects of stormwater. Wetland Connections: a Nature Vision educator will lead an in-class discussion and field trip at your local wetland, retention pond, or location of your choice to facilitate activities that show the importance of these unique ecosystems in helping manage the effects of stormwater runoff. All activities support WA State K-12 Learning Standards and are customized to the watershed in which the stream or wetland is located. This allows students to make connections to their local environment and learn how they can become stewards where it matters to them most.

Link: https://naturevision.org/school-programs/

Time: 1-2 hours

Cost: $220 per 2 part program. May also register for one part for $110.

Transportation: Must provide own transportation.

Note: Free programs may be available, please email info@naturevision.org for more information. Nature Vision also offers in-class lessons and projects.

*Seattle Aquarium: Salmon Exploration

Learn about the life cycle of Seattle's most iconic animal, the salmon. With the use of storyboards and interactive activities, students will explore salmon from egg to adult and discuss the many different factors that affect these amazing fish. (Max class size 32)

Link: https://www.seattleaquarium.org/site-classroom-programs

Time: 60 minutes

Cost: $10 each (This is the price of aquarium admission for adults and youth 4 and up)
Transportation: Please contact.
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Seattle Aquarium: Orcas, Otters, and Friends
Students will learn about five local marine mammals: sea otters, seals, sea lions, orcas and baleen whales. Using a combination of movement, discussion, and song, students will discover what makes these animals unique and how they survive in an ocean habitat. Circle time is followed by free-choice exploration that includes handling pelts and bones, magnet board/puppet play, books, puzzles, a vet station and a letter-matching activity. (Max class size 32)
Link: [https://www.seattleaquarium.org/site-classroom-programs](https://www.seattleaquarium.org/site-classroom-programs)
Time: 30 minutes
Cost: $10 each (This is the price of aquarium admission for adults and youth 4 and up)
Transportation: Please contact.
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Seattle Aquarium: Hands-on Tide Pool Exploration
Get up close and hands on with live tide pool animals. Through the use of puppets, live animals and discussion, students will learn about how these animals survive in their ever-changing habitat and how simple actions can help protect them.
Link: [https://www.seattleaquarium.org/site-classroom-programs](https://www.seattleaquarium.org/site-classroom-programs)
Time: 60 minutes
Cost: $10 each (This is the price of aquarium admission for adults and youth 4 and up)
Transportation: Please contact.
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Seattle Parks and Recreation: Camp Long
Bringing science, environmental education, and experiential learning to your parks. Seattle Parks and Recreation’s Environmental Education and Outdoor Learning staff provide opportunities for grades K-12 and organized groups, such as scouts and camps, to experience age-appropriate, hands-on adventures in learning about natural communities in an urban setting. Programs align with WA State Essential Academic Learning Requirements for core content areas and support science kits.
Ponds (spring and summer only): Experience the freshwater habitats of a city park at Camp Long or Discovery Park. Waddling ducks, wriggling tadpoles, and dancing dragonflies are some of the creatures they may see as they explore what makes these places so special.
Forest: Camp Long and Discovery Park have lots of forest habitat to explore. Venture through the trees looking for clues to animal habits, hiding places, and
seasonal happenings. Forest programs empower participants to feel comfortable in the outdoors.

Link: https://www.seattle.gov/parks/find/centers/camp-long/camps

Transportation: Please contact.

*Not offering Nature Camps for the 2021 season, planning to reopen in 2022. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Projects

Nature Vision: Blue Teams

Nature Vision offers Blue Teams, a student stewardship project funded by our water sponsors. Blue Teams are groups of kindergarten-12th grade students who commit to taking on and completing a watershed stewardship project. Students complete projects such as invasive plant removal, native plant restoration, planting water-wise gardens, finding and fixing leaks, and much more.

The Blue Team program was developed to educate local youth about water resources and related ecosystems, foster sustainable stewardship values and practices in the community through hands-on youth projects, and to empower youth to take positive steps to improve their local environment.

Blue Teams receive Nature Vision’s help in planning, preparing for, and executing their projects at school or at an off-campus project site, as well as regular teacher consultations via phone or email. Teachers/Instructors may register their class or youth group to become a team, and Nature Vision staff will help each team to design a watershed stewardship project. Staff will visit the students multiple times to teach inquiry-based programs, giving the students the knowledge and help they will need to successfully complete and understand the value of their project.

Link: https://naturevision.org/blue-teams

Time: Variable

Cost: Free Blue Teams may be available, please email info@naturevision.org for more information.

Transportation: Must provide own transportation.

Note: Blue Teams now have virtual options.
2nd Grade

Remote Learning

These are remote learning options for classrooms or home learning.

King County DNRP: Humans and the Water Cycle
How are we connected to the water cycle? Join us in learning more about water as we read a story, conduct a scientific experiment (with items you can find at home or in the classroom) and find out what we can do each day to help keep our water clean! Humans and the Water Cycle is a pre-taped 45-minute video lesson for grades K-2.
Link: https://kingcounty.gov/services/environment/wastewater/education/resources.aspx
Time: 45 minutes
Cost: No Cost

Burke Museum Virtual Education Programs: Virtual Field Trips
Web-based, virtual tours of the museum. Designed to support classroom curriculum, our Virtual Field Trips are interactive, self-paced experiences. All you need is an internet connection and web browser to get started.
Link: https://www.burkemuseum.org/education/educators-and-schools/virtual-education-programs
Time: 30 minutes
Cost: $40; cost assistance is available for qualifying schools, organizations, and groups.

Burke Museum Virtual Education Programs: Burke LIVE
Have a Burke educator join your class live from our learning studio. Each program includes an interactive discussion or activity related to the topic, a closer look at real Burke collections and a chance for Q&A! You’ll also receive pre- and post-program materials to help prepare your students for the live experience and extend their learning afterwards.
Link: https://www.burkemuseum.org/education/educators-and-schools/virtual-education-programs
Time: 45 minutes
Cost: $90, Cost assistance is available for qualifying schools, organizations, and groups.

Mountain to Sound Greenway Trust: Virtual Education
Mountain to Sound Greenway Trust has a virtual education series of videos and activities to do at home. Topics include: Forest and Fins, Next Generation Stewards, Salmon SEEson, Kokanee Salmon, and alternative ideas to explore nature while staying close to home.
Link: https://mtsgreenway.org/get-involved/education/virtual-education/
Cost: No cost
Nature Vision: Student Packets
Nature Vision has developed seven science packets for K-12 students: Ecological Impacts, Water Quality, Human Systems, Invasive Plants, Ecosystems, Watersheds, and Humans and Water. Each free downloadable packet includes the following:
1. Teacher Overview
2. Parent/Caregiver Overview
3. Daily Student Science Lessons
Contact: info@naturevision.org
Link: https://naturevision.org/student-packets
Cost: No cost

Nature Vision: Remote Learning and Video Call Programs
Nature Vision has adapted many of our most popular in-class programs into two virtual formats for increased accessibility! We now offer synchronous full-length video call programs and asynchronous remote curriculum program options for teachers, parents, and caregivers to use during the upcoming school year. These programs are designed to accommodate both fully remote and hybrid teaching options for each school district Nature Vision serves. The programs are flexible to best fit teachers’ schedules, student needs, and current WA State K-12 Learning Standards with STEM education as a central focus. Each full-length video call program is 45-60 minutes live with one of our educators. Each remote learning program includes videos of our engaging Nature Vision Educators, detailed instructions for teachers/parents/caregivers to lead interactive activities, and a live Q&A session with an educator.
Link: https://naturevision.org/remote-learning-programs
Time: Roughly 1 hour between videos, activities, and Q&A sessions
Cost: Free for most schools. Otherwise $85-$90
Note: Free programs are available to most schools, please email info@naturevision.org for more information. Nature Vision also offers classroom programs, field trips, and projects.

Seattle Aquarium: Digital Learning Opportunities
All of our programs focus on the marine ecosystems of the Pacific Northwest. Our educators will guide you and up to 32 of your students over video conferencing software through lessons that support Next Generation Science Standards while giving your students agency to influence the class based on their prior knowledge and interests. Each of our classes has a grade level range, and within that range our skilled educators will tailor the class for your specific grade level. Many classes also include special live animal interactions with the tide pool creatures in our care.
Link: https://www.seattleaquarium.org/distance-learning
Time: 45 minutes
Cost: $150, Scholarships available for those eligible.
Classroom Visitors

These programs are taught by an informal educator from various organizations in your classroom.

City of Duvall: Surface Water Management Classroom Visitor
Larissa Polanco, Assistant City Engineer. Discussion adapted to what you are teaching in the classroom.
Contact: Larissa Polanco at larissa.polanco@duvallwa.gov and 425-788-3434 ext. 8040
Link: [http://www.duvallwa.gov/305/sewer-water-stormwater](http://www.duvallwa.gov/305/sewer-water-stormwater)
Time: Variable
Cost: No Cost

City of Newcastle: Surface Water Management Classroom Visitor
The Surface Water Program Manager can speak to your class about surface water management, with an emphasis on what you are currently talking about in the classroom.
Contact: Audrie Starsy at audries@newcastlewa.gov or 425-649-4444 ext. 111
Time: Variable
Cost: No Cost

Eastside Audubon: Classroom Workshops
These workshops teach K-12 students what makes a bird a bird and how to identify common birds seen in our area. Each workshop is on a different topic and has specific activities included. Workshop topics include: Introduction to Birds, Bird Identification, Using Binoculars, Bird Beaks and Food, and more!
Contact: youthprograms@eastsideaudubon.org
Link: [https://www.eastsideaudubon.org/youth-education](https://www.eastsideaudubon.org/youth-education)
Time: Depends on workshop topic
Cost: No cost
Note: Can be adapted by the volunteer to address stormwater runoff effects specifically. Programs are offered in communities from Bellevue to Woodinville/Bothell and from East Lake Washington to North Bend.

*Environmental Science Center: Beach Heroes*
The Beach Heroes program introduces K-3 students to the local Puget Sound beach habitat and the organisms that live there. During the introductory classroom visit, students will learn beach etiquette and stewardship while learning about the adaptations of the marine invertebrates residing in Puget Sound. During this Next Generation Science Standards-correlated lesson, students will create field guides they will use during their field study. The 1-2 hour field study features both naturalist-led beach exploration and structured activities, during which students will learn all about
the habitat restoration of Seahurst Beach! After participating in ESC's Beach Heroes program, students pledge to adopt three behaviors to protect, to conserve, and to educate others about our oceans and marine debris. To honor these students' commitment to environmental stewardship, they receive an Official Beach Hero identification card.

Contact: Kelly@environmentalsciencecenter.org or Programs@environmentalsciencecenter.org or 206-248-4266

Link: https://envsciencecenter.org/programs/beach-heroes/

Time: 45-minute virtual introduction lesson (1 hour in person) + 1 hour virtual field lesson (2 hours in-person) + optional supplemental videos and activities; an additional 45-60 minutes for the Advanced Beach Heroes option

Cost: None for the 2021 season. (Previously: Schools with more than 75% of students qualifying for Free or Reduced Priced Meals (FRPM) - No Charge; Schools with 45-75% students qualifying for FRPM - $50 per class of 30 students; Schools with less than 45% of students qualifying for FRPM - $150 per class of 30 students)

Transportation: When not virtual, partial transportation reimbursements are available for schools where more than 45% of students qualify for FRPM

Note: Offered April-June

*The 2021 season will be virtual due to COVID-19. Please check the website for the most up-to-date information.

Friends of the Issaquah Salmon Hatchery (FISH): Those Amazing Salmon

This popular presentation consists of a 45- to 60-minute slide show, discussion, and question-and-answer session. After the slide show, teachers have the option of a watershed activity, quiz game, or Native American legend activity for their class.

Contact: education@issaquahfish.org or 425-393-1118

Link: www.issaquahfish.org/teachers-school-programs/

Time: 45-80 minutes

Cost: $50 per class request in King County, $75 request out of King County

Note: Will still accept schools that cannot afford the fees. Ideally, a class receives the presentation prior to a visit to the hatchery. The program is available year round. FISH also offers field trips.

Friends of the Issaquah Salmon Hatchery (FISH): Enviroscape - a Watershed Model

Using a table-top watershed model, students “pollute” the land, make it “rain,” and watch how pollution can affect the watershed. They then come up with solutions to pollution problems and identify things they can do to keep our watersheds (and salmon!) healthy.

Contact: education@issaquahfish.org or 425-393-1118

Link: www.issaquahfish.org/teachers-school-programs/

Time: 60 minutes

Cost: $50 per class requested

Note: Offered November-June. FISH also offers field trips.
Nature Vision: Watershed Programs
A Nature Vision educator will visit your classroom to facilitate hands-on lessons that highlight the challenges our local watershed faces with stormwater runoff. Each hour-long lesson focuses on specific concepts related to stormwater. Lessons can stand alone or be combined into units that offer a more complete picture of stormwater. Units can be for one grade level or used to scaffold throughout multiple grade levels at a school. Every lesson is designed to support WA State K-12 Learning Standards and help students understand what they can do to reduce the effects of stormwater runoff.

Link: https://naturevision.org/school-programs/
Time: 45-60 minutes
Cost: Free for most schools. Otherwise $110 per in-person lesson, $85-90 for remote
Note: Free programs are available to most schools, please email info@naturevision.org for more information. Nature Vision also offers field trips and projects. Nature Vision can also provide classroom programs virtually over video call at 45-60 minutes.

Vashon Nature Center: Nature Presentations
Trained scientists and naturalists offer in-class and outdoor programs designed to foster student awareness and understanding of environmental science topics relevant to their community and tied to global issues. Programs are tailored to suit teachers' classroom teaching goals and align with Next Generation Science Standards.
Contact: info@vashonnaturecenter.org or 206-755-5798
Link: http://vashonnaturecenter.org/what-we-do/scientists-in-schools/
Time: 30-90 minutes
Cost: $50-$150
Note: Areas of focus address the natural history of the Salish Sea and Pacific Northwest. Examples include: watershed education, stormwater management, phenology, freshwater macroinvertebrates, salmon, amphibians, intertidal studies, forage fish, shoreline restoration, biodiversity studies, and methods in field research.

Field Trips

King County: Salmon SEEson
During the fall, salmon return to streams and rivers around the Puget Sound. Spot the spawners in the Lake Washington/Cedar/Sammamish and Green/Duwamish and Central Puget Sound watersheds from September to mid-December. Salmon SEEson provides information to help you spy these natural beauties at various times and locations as they make their seasonal journey home each year. Many locations have staff or volunteer naturalists on hand to point out salmon; some are self-guided locations.
Contact: Laura West at lwest@kingcounty.gov or 206-477-7574
Link: www.govlink.org/watersheds/8/action/salmon-seeson/default.aspx
Time: 15-60 minutes
**Cost:** No Cost  
**Transportation:** Qualifying schools can access free bus transportation through the [Wheels to Water program](https://www.watertowater.org/).  
**Note:** Flyers, poster, and a website are available to help you find the best time and location for you and your class to see spawning salmon. King County also offers teacher resources, in-class lessons, and projects.

**Camp Fire Seattle: Camp Sealth**  
Encompassing 400 incredible acres including an extensive trail system, a private beach and numerous diverse ecosystems, Camp Sealth is the perfect venue for experiential education. Camp Fire was established with a strong foundation in providing positive outdoor experiences for youth and it is fundamental to their mission, core values, and programs. We believe in the power of nature to awaken a child’s senses, curiosity, and desire to learn. With a completely inquiry-based program, our students are taught to study and evaluate the natural world. Through hands-on learning, they develop a deeper understanding of the scientific method and we hope – a curiosity and love for the environment. Camp Sealth serves grades K-12 for our Outdoor Education, Retreats, and Day Programs and can create customizable schedules that meet current educational standards by grade level.  
**Contact:** Josh Cunningham at [joshc@campfireseattle.org](mailto:joshc@campfireseattle.org)  
**Link:** [https://campfireseattle.org/outdoor-education/](https://campfireseattle.org/outdoor-education/)  
**Time:** Program offered September-June. Typical program is 3 days, 2 nights. Can do both 1 night and week-long programs as well.  
**Cost:** $56 per student per night, $48 per adult per night  
**Transportation:** [https://campfireseattle.org/camp-sealth-overnight-camp/all-about-camp-sealth/transportation/](https://campfireseattle.org/camp-sealth-overnight-camp/all-about-camp-sealth/transportation/)  
**Note:** In addition to the Outdoor Education program, Camp Sealth and Camp Fire Central Puget Sound offers rentals of our site for other non-profit groups, over ten community based day camps in various locations in King County during the summer months, summer resident camp at our Camp Sealth site, and community based group programming at various locations in King County. For more information about these programs please contact Michael McGrath at the Seattle office at [michaelm@campfireseattle.org](mailto:michaelm@campfireseattle.org).

***Environmental Science Center: Beach Heroes**  
The Beach Heroes program introduces K-3 students to the local Puget Sound beach habitat and the organisms that live there. During the introductory classroom visit, students will learn beach etiquette and stewardship while learning about the adaptations of the marine invertebrates residing in Puget Sound. During this Next Generation Science Standards-correlated lesson, students will create field guides they will use during their field study. The 1-2 hour field study features both naturalist-led beach exploration and structured activities, during which students will learn all about the habitat restoration of Seahurst Beach! After participating in ESC's Beach Heroes
program, students pledge to adopt three behaviors to protect, to conserve, and to educate others about our oceans and marine debris. To honor these students' commitment to environmental stewardship, they receive an Official Beach Hero identification card.

Contact: Kelly@environmentalsciencecenter.org or Programs@environmentalsciencecenter.org or 206-248-4266
Link: https://envsciencecenter.org/programs/beach-heroes/

Time: 45-minute virtual introduction lesson (1 hour in person) + 1 hour virtual field lesson (2 hours in-person) + optional supplemental videos and activities; an additional 45-60 minutes for the Advanced Beach Heroes option

Cost: None for the 2021 season. (Previously: Schools with more than 75% of students qualifying for Free or Reduced Priced Meals (FRPM) - No Charge; Schools with 45-75% students qualifying for FRPM - $50 per class of 30 students; Schools with less than 45% of students qualifying for FRPM - $150 per class of 30 students)

Transportation: When not virtual, partial transportation reimbursements are available for schools where more than 45% of students qualify for FRPM

Note: Offered April-June

*The 2021 season will be virtual due to COVID-19. Please check the website for the most up-to-date information.

*Friends of the Issaquah Salmon Hatchery (FISH): Those Amazing Salmon - Hatchery Tours

Come see the salmon at Issaquah Creek! Watch spawning salmon, see the hatchery in action, and learn about challenges salmon face and what we can do to help them. Scheduled groups of students and adults are led through the hatchery by trained volunteer docents.

Contact: education@issaquahfish.org or 425-392-1118
Link: https://www.issaquahfish.org/2021-guided-tours/

Time: Tours last 45 minutes to one hour and are available primarily mid-September through early November

Cost: FISH requests a fee of $2 per student when possible.

Transportation: Please contact.

Note: The tour, ideally in conjunction with the Those Amazing Salmon classroom presentation, helps fulfill the state mandate to provide environmental education experiences to students and is aligned to Washington State standards in science and social studies.

*Hatchery grounds are currently closed to the public. Guided tours are permitted with a reservation. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Friends of Soos Creek (Kent): Interpretive Walk

Friends of Soos Creek Park is a non-profit organization comprised of volunteer members who take a pro-active role in preserving and extending the Soos Creek Trail Park and who sponsor and lead park clean-ups and interpretive walks for public education about
the importance of wetlands and undisturbed nature. Soos Creek Park is one of south King County’s prized wetland habitats. An 8.5 mile trail follows the creek through cattail marshes, forested swamps, wet meadows and willow thickets. This trail is suited to all levels of fitness and is wheelchair accessible. Take any or all of the interpretive walks to learn more about this fascinating area and its wildlife residents. Volunteers from The Friends of Soos Creek Park lead these interpretive walks.

**Contact:** Kent Parks and Recreation: 253-856-5000 or Covington Parks and Recreation: 253-480-2480

**Link:** [https://www.facebook.com/FriendsOfSoosCreekPark/](https://www.facebook.com/FriendsOfSoosCreekPark/)

**Time:** Variable

**Transportation:** Please contact for details

**Note:** All of the walks take place outdoors, so be sure to dress for the weather

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**Mercer Slough Environmental Education Center: Habitat Wonderers**

**Lab:** Students become familiar with the science terms, “organism,” “habitat,” and “adaptation” before getting hands-on experience searching for and catching Aquatic Macroinvertebrates from the pond samples. After, they have a unique experience looking at the pond creatures under a projector microscope to really bring those adaptations to life.

**Hike:** Educators show students a new way of exploring habitats by practicing observation skills in both a forest and a wetland. Students are challenged to find different examples of food, water and shelter in a group scavenger hunt. If there is enough time, groups can get any extra energy out playing an organism game.

**Contact:** Elley Vanderline at evanderline@pacsci.org or 425-450-0207

**Link:** [https://www.pacificsciencecenter.org/mercer-slough/teachers-school-groups/](https://www.pacificsciencecenter.org/mercer-slough/teachers-school-groups/)

**Time:** 3 hours, including a 30-minute lunch

**Cost:** $202 for up to 16 students, $328 for 17-32 students.

Financial assistance and a sliding scale pricing model are available. Email edprograms@pacsci.org to find out if your school qualifies.

**Transportation:** Please contact for details

**Note:** Programs require a ratio of one chaperone per 16 students. Adults are free of charge. Limited financial assistance is available for qualifying schools!

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

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**Mercer Slough Environmental Education Center: Soil Adventures**

**Lab:** Students discover for themselves just how important soil is to human food sources, and learn to describe the soil cycle with all of the different soil makers. After this, they sift through soil samples and collect Soil Macroinvertebrates to look at under a video microscope.

**Hike:** The hike takes students through a forest and wetland habitat and allows them to observe the differences in the soils in each place. They learn to draw connections
between all of the different ways decomposition can happen during a group scavenger hunt, and get their energy out playing a soil tagging game.

Contact: Elley Vanderline at evanderline@paccsi.org or 425-450-0207

Link: https://www.pacificsciencecenter.org/mercer-slough/teachers-school-groups/

Time: 3 hours, including a 30-minute lunch

Cost: $202 for up to 16 students, $328 for 17-32 students.

Financial assistance and a sliding scale pricing model are available. Email edprograms@paccsi.org to find out if your school qualifies.

Transportation: Please contact for details

Note: Programs require a ratio of one chaperone per 16 students. Adults are free of charge. Limited financial assistance is available for qualifying schools!

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Mercer Slough Environmental Education Center: Wetland Naturalists

Lab: Students learn what wetlands are and why they are an important ecosystem to protect. With enough time, groups collect their own water samples from the nearby pond to bring back to the classroom. Students then search through the samples to collect Aquatic Macroinvertebrates. Using a video microscope to look closer at each Macro, students record their observations for sharing just like real naturalists.

Hike: The hike shows students how naturalists use plants, soils, and hydrology to do a wetland delineation to better protect the important ecosystem. Students practice their observation skills by using a guided scavenger hunt. With enough time, they learn the challenges of being a migrating bird while playing our Wetland Migration game.

Contact: Elley Vanderline at evanderline@paccsi.org or 425-450-0207

Link: https://www.pacificsciencecenter.org/mercer-slough/teachers-school-groups/

Time: 4 hours, including a 30-minute lunch

Cost: $210 for up to 16 students, $358 for 17-32 students.

Financial assistance and a sliding scale pricing model are available. Email edprograms@paccsi.org to find out if your school qualifies.

Transportation: Please contact.

Note: Programs require a ratio of one chaperone per 16 students. Adults are free of charge. Limited financial assistance is available for qualifying schools!

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Nature Vision: Stream and Wetland Connections

These are 2-part programs. Stream Connections: a Nature Vision educator will lead an in-class discussion and field trip at your local stream while facilitating a variety of activities related to salmon and the effects of stormwater. Wetland Connections: a Nature Vision educator will lead an in-class discussion and field trip at your local wetland, retention pond, or location of your choice to facilitate activities that show the importance of these unique ecosystems in helping manage the effects of stormwater
runoff. All activities support WA State K-12 Learning Standards and are customized to the watershed in which the stream or wetland is located. This allows students to make connections to their local environment and learn how they can become stewards where it matters to them most.

Link: https://naturevision.org/school-programs/

Time: 1-2 hours
Cost: $220 per 2 part program. May also register for one part for $110.

Transportation: Must provide own transportation.

Note: Free programs may be available, please email info@naturevision.org for more information. Nature Vision also offers in-class lessons and projects.

*Seattle Aquarium: Salmon Exploration
Learn about the life cycle of Seattle’s most iconic animal, the salmon. With the use of storyboards and interactive activities, students will explore salmon from egg to adult and discuss the many different factors that affect these amazing fish. (Max class size 32)

Link: https://www.seattleaquarium.org/site-classroom-programs

Time: 60 minutes
Cost: $10 each (This is the price of aquarium admission for adults and youth 4 and up)

Transportation: Please contact.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Seattle Aquarium: Orcas, Otters, and Friends
Students will learn about five local marine mammals: sea otters, seals, sea lions, orcas and baleen whales. Using a combination of movement, discussion, and song, students will discover what makes these animals unique and how they survive in an ocean habitat. Circle time is followed by free-choice exploration that includes handling pelts and bones, magnet board/puppet play, books, puzzles, a vet station and a letter-matching activity. (Max class size 32)

Link: https://www.seattleaquarium.org/site-classroom-programs

Time: 30 minutes
Cost: $10 each (This is the price of aquarium admission for adults and youth 4 and up)

Transportation: Please contact.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Seattle Aquarium: Hands-on Tide Pool Exploration
Get up close and hands on with live tide pool animals. Through the use of puppets, live animals and discussion, students will learn about how these animals survive in their ever-changing habitat and how simple actions can help protect them.

Link: https://www.seattleaquarium.org/site-classroom-programs

Time: 60 minutes
Cost: $10 each (This is the price of aquarium admission for adults and youth 4 and up)
Transportation: Please contact.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Seattle Parks and Recreation: Camp Long
Bringing science, environmental education, and experiential learning to your parks. Seattle Parks and Recreation’s Environmental Education and Outdoor Learning staff provide opportunities for grades K-12 and organized groups, such as scouts and camps, to experience age-appropriate, hands-on adventures in learning about natural communities in an urban setting. Programs align with WA State Essential Academic Learning Requirements for core content areas and support science kits.

Ponds (spring and summer only): Experience the freshwater habitats of a city park at Camp Long or Discovery Park. Waddling ducks, wriggling tadpoles, and dancing dragonflies are some of the creatures they may see as they explore what makes these places so special.

Forest: Camp Long and Discovery Park have lots of forest habitat to explore. Venture through the trees looking for clues to animal habits, hiding places, and seasonal happenings. Forest programs empower participants to feel comfortable in the outdoors.

Link: https://www.seattle.gov/parks/find/centers/camp-long/camps

Transportation: Please contact.

*Not offering Nature Camps for the 2021 season, planning to reopen in 2022. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Projects

Nature Vision: Blue Teams
Nature Vision offers Blue Teams, a student stewardship project funded by our water sponsors. Blue Teams are groups of kindergarten-12th grade students who commit to taking on and completing a watershed stewardship project. Students complete projects such as invasive plant removal, native plant restoration, planting water-wise gardens, finding and fixing leaks, and much more.

The Blue Team program was developed to educate local youth about water resources and related ecosystems, foster sustainable stewardship values and practices in the community through hands-on youth projects, and to empower youth to take positive steps to improve their local environment.

Blue Teams receive Nature Vision’s help in planning, preparing for, and executing their projects at school or at an off-campus project site, as well as regular teacher consultations via phone or email. Teachers/Instructors may register their class or youth group to become a team, and Nature Vision staff will help each team to design a watershed stewardship project. Staff will visit the students multiple times to teach
inquiry-based programs, giving the students the knowledge and help they will need to successfully complete and understand the value of their project.

Link: [https://naturevision.org/blue-teams](https://naturevision.org/blue-teams)

**Time:** Variable

**Cost:** Free Blue Teams may be available, please email [info@naturevision.org](mailto:info@naturevision.org) for more information.

**Transportation:** Must provide own transportation.

**Note:** Blue Teams now have virtual options.
Remote Learning

These are remote learning options for classrooms or home learning.

King County DNRP: Water Education Series
- When It Rains, It Pours Virtual Series (aimed at grades 3-5): This 3-session series of lessons will build students’ understanding of the interactions that stormwater has with the ecosystems and communities they inhabit. Synchronous or video-taped sessions led by educators are designed for students and families to engage in activities they can do at home.

- Wastewater Engineers Virtual Series (aimed at grades 3-6): This 4-session series of lessons will teach students how wastewater is cleaned, and how their daily choices have a direct impact on the water cycle. Sessions are designed for students to use the engineering design process while they “visit” a wastewater treatment plant, carry out investigations, and learn how to become stewards of their water system. Lessons can be synchronous or are offered as video-taped lessons.
  
  **Contact:** Katelyn.Leeuw@kingcounty.gov  
  **Link:** https://kingcounty.gov/services/environment/wastewater/education/school.aspx  
  **Time:** 60 minute sessions  
  **Cost:** No cost

Burke Museum Virtual Education Programs: Virtual Field Trips
- Web-based, virtual tours of the museum. Designed to support classroom curriculum, our Virtual Field Trips are interactive, self-paced experiences. All you need is an internet connection and web browser to get started.
  
  **Link:** https://www.burkemuseum.org/education/educators-and-schools/virtual-education-programs  
  **Time:** 30 minutes  
  **Cost:** $40; cost assistance is available for qualifying schools, organizations, and groups.

Burke Museum Virtual Education Programs: Burke LIVE
- Have a Burke educator join your class live from our learning studio. Each program includes an interactive discussion or activity related to the topic, a closer look at real Burke collections and a chance for Q&A! You’ll also receive pre- and post-program materials to help prepare your students for the live experience and extend their learning afterwards.
  
  **Link:** https://www.burkemuseum.org/education/educators-and-schools/virtual-education-programs  
  **Time:** 45 minutes  
  **Cost:** $90, Cost assistance is available for qualifying schools, organizations, and groups.
Mountain to Sound Greenway Trust: Virtual Education
Mountain to Sound Greenway Trust has a virtual education series of videos and activities to do at home. Topics include: Forest and Fins, Next Generation Stewards, Salmon SEEson, Kokanee Salmon, and alternative ideas to explore nature while staying close to home.
Link: https://mtsgreenway.org/get-involved/education/virtual-education/
Cost: No cost

Nature Vision: Student Packets
Nature Vision has developed seven science packets for K-12 students: Ecological Impacts, Water Quality, Human Systems, Invasive Plants, Ecosystems, Watersheds, and Humans and Water. Each free downloadable packet includes the following:
1. Teacher Overview
2. Parent/Caregiver Overview
3. Daily Student Science Lessons
Contact: info@naturevision.org
Link: https://naturevision.org/student-packets
Cost: No cost

Nature Vision: Remote Learning and Video Call Programs
Nature Vision has adapted many of our most popular in-class programs into two virtual formats for increased accessibility! We now offer synchronous full-length video call programs and asynchronous remote curriculum program options for teachers, parents, and caregivers to use during the upcoming school year. These programs are designed to accommodate both fully remote and hybrid teaching options for each school district Nature Vision serves. The programs are flexible to best fit teachers’ schedules, student needs, and current WA State K-12 Learning Standards with STEM education as a central focus. Each full-length video call program is 45-60 minutes live with one of our educators. Each remote learning program includes videos of our engaging Nature Vision Educators, detailed instructions for teachers/parents/caregivers to lead interactive activities, and a live Q&A session with an educator.
Link: https://naturevision.org/remote-learning-programs
Time: Roughly 1 hour between videos, activities, and Q&A sessions
Cost: Free for most schools. Otherwise $85-$90
Note: Free programs are available to most schools, please email info@naturevision.org for more information. Nature Vision also offers classroom programs, field trips, and projects.

Seattle Aquarium: Digital Learning Opportunities
All of our programs focus on the marine ecosystems of the Pacific Northwest. Our educators will guide you and up to 32 of your students over video conferencing software through lessons that support Next Generation Science Standards while giving your students agency to influence the class based on their prior knowledge and interests. Each of our classes has a grade level range, and within that range our skilled educators
will tailor the class for your specific grade level. Many classes also include special live animal interactions with the tide pool creatures in our care.

**Link:** [https://www.seattleaquarium.org/distance-learning](https://www.seattleaquarium.org/distance-learning)

**Time:** 45 minutes

**Cost:** $150, Scholarships available for those eligible.

### Pacific Marine Research: Marine Science Remote

Book our series of 3 one hour live sessions and join our naturalists as they guide you through Plankton Lab, our Live Dive and an Invertebrate Food Chains Lesson or a more advanced Invertebrate Taxonomy with live critters. Meet our divers and ask them questions in real time as they take you underwater during the Live Dive. We will also include Water Quality Data collected on the day of this live portion. The live stream will allow for students to ask questions and interact with naturalists and scuba divers in real-time.

**Contact:** fieldtrips@marinescienceafloat.org or 206-361-1919

**Link:** [https://www.pacificmarineresearch.org/pages/marine-science-remote](https://www.pacificmarineresearch.org/pages/marine-science-remote)

**Time:** Three 1 hour sessions

**Cost:** $250, scholarships available

### Classroom Visitors

These programs are taught by an informal educator from various organizations in your classroom.

#### King County DNRP: Water Education

**Stormwater in your Schoolyard (grades 3-5):** This is a 90-minute program led by IslandWood and King County staff outside in your school yard. The lesson is Next Generation Science Standards (NGSS) aligned and site specific, building upon students' prior experiences and understanding of their schoolyard. Students will investigate how stormwater moves through their school yard, identify stormwater problems, and collaborate with their peers to design solutions. This lesson introduces students to concepts related to stormwater, the engineering solutions that were put in place at their school, the engineering design process and using scientific practices and skills in the student’s home community. Students identify areas in their schoolyard where they see or have seen stormwater issues, research those areas, and then use this knowledge to begin the process of developing a potential solution.

**Contact:** Katelyn.Leeuw@kingcounty.gov

**Link:** [https://kingcounty.gov/services/environment/wastewater/education/school.aspx](https://kingcounty.gov/services/environment/wastewater/education/school.aspx)

**Cost:** No cost

### King County: Noxious Weeds
The King County Noxious Weed Control Program can provide presentations and other programs upon request for teachers and students of all levels customized to their curriculum needs. Contact the program for more information or to set up a presentation or field trip.

Contact: noxious.weeds@kingcounty.gov
Time: Variable
Cost: No Cost
Note: This program can be a presentation or field trip. King County also offers teacher resources and projects.

City of Duvall: Surface Water Management Classroom Visitor
Larissa Polanco, Assistant City Engineer. Discussion adapted to what you are teaching in the classroom.
Contact: Larissa Polanco at larissa.polanco@duvallwa.gov and 425-788-3434 ext. 8040
Link: [http://www.duvallwa.gov/305/sewer-water-stormwater](http://www.duvallwa.gov/305/sewer-water-stormwater)
Time: Variable
Cost: No Cost

City of Newcastle: Surface Water Management Classroom Visitor
The Surface Water Program Manager can speak to your class about surface water management, with an emphasis on what you are currently talking about in the classroom.
Contact: Audrie Starsy at audries@newcastlewa.gov or 425-649-4444 ext. 111
Time: Variable
Cost: No Cost

Eastside Audubon: Classroom Workshops
These workshops teach K-12 students what makes a bird a bird and how to identify common birds seen in our area. Each workshop is on a different topic and has specific activities included. Workshop topics include: Introduction to Birds, Bird Identification, Using Binoculars, Bird Beaks and Food, and more!
Contact: youthprograms@eastsideaudubon.org
Link: [https://www.eastsideaudubon.org/youth-education](https://www.eastsideaudubon.org/youth-education)
Time: Depends on workshop topic
Cost: No cost
Note: Can be adapted by the volunteer to address stormwater runoff effects specifically. Programs are offered in communities from Bellevue to Woodinville/Bothell and from East Lake Washington to North Bend.

*Environmental Science Center: Beach Heroes*
The Beach Heroes program introduces K-3 students to the local Puget Sound beach habitat and the organisms that live there. During the introductory classroom visit, students will learn beach etiquette and stewardship while learning about the adaptations of the marine invertebrates residing in Puget Sound. During this Next Generation Science Standards-correlated lesson, students will create field guides they will use during their field study. The 1-2 hour field study features both naturalist-led beach exploration and structured activities, during which students will learn all about the habitat restoration of Seahurst Beach! After participating in ESC's Beach Heroes program, students pledge to adopt three behaviors to protect, to conserve, and to educate others about our oceans and marine debris. To honor these students' commitment to environmental stewardship, they receive an Official Beach Hero identification card.

Contact: Kelly@environmentalsciencecenter.org or Programs@environmentalsciencecenter.org or 206-248-4266
Link: https://envsciencecenter.org/programs/beach-heroes/
Time: 45-minute virtual introduction lesson (1 hour in person) + 1 hour virtual field lesson (2 hours in-person) + optional supplemental videos and activities; an additional 45-60 minutes for the Advanced Beach Heroes option
Cost: None for the 2021 season. (Previously: Schools with more than 75% of students qualifying for Free or Reduced Priced Meals (FRPM) - No Charge; Schools with 45-75% students qualifying for FRPM - $50 per class of 30 students; Schools with less than 45% of students qualifying for FRPM - $150 per class of 30 students)
Transportation: When not virtual, partial transportation reimbursements are available for schools where more than 45% of students qualify for FRPM
Note: Offered April-June

*The 2021 season will be virtual due to COVID-19. Please check the website for the most up-to-date information.

Friends of the Issaquah Salmon Hatchery (FISH): Those Amazing Salmon
This popular presentation consists of a 45- to 60-minute slide show, discussion, and question-and-answer session. After the slide show, teachers have the option of a watershed activity, quiz game, or Native American legend activity for their class.
Contact: education@issaquahfish.org or 425-393-1118
Link: www.issaquahfish.org/teachers-school-programs/
Time: 45-80 minutes
Cost: $50 per class request in King County, $75 request out of King County
Note: Will still accept schools that cannot afford the fees. Ideally, a class receives the presentation prior to a visit to the hatchery. The program is available year round. FISH also offers field trips.

Friends of the Issaquah Salmon Hatchery (FISH): Enviroscape - a Watershed Model
Using a table-top watershed model, students “pollute” the land, make it “rain,” and watch how pollution can affect the watershed. They then come up with solutions to
pollution problems and identify things they can do to keep our watersheds (and salmon!) healthy.

Contact: education@issaquahfish.org or 425-393-1118

Link: http://www.issaquahfish.org/teachers-school-programs/

Time: 60 minutes

Cost: $50 per class requested

Note: Offered November-June. FISH also offers field trips.

Nature Vision: Watershed Programs
A Nature Vision educator will visit your classroom to facilitate hands-on lessons that highlight the challenges our local watershed faces with stormwater runoff. Each hour-long lesson focuses on specific concepts related to stormwater. Lessons can stand alone or be combined into units that offer a more complete picture of stormwater. Units can be for one grade level or used to scaffold throughout multiple grade levels at a school. Every lesson is designed to support WA State K-12 Learning Standards and help students understand what they can do to reduce the effects of stormwater runoff.

Link: https://naturevision.org/school-programs/

Time: 45-60 minutes

Cost: Free for most schools. Otherwise $110 per in-person lesson, $85-90 for remote

Note: Free programs are available to most schools, please email info@naturevision.org for more information. Nature Vision also offers field trips and projects. Nature Vision can also provide classroom programs virtually over video call at 45-60 minutes.

Sound Salmon Solutions: Hooks and Ladders
Students become spawning salmon in this fun, interactive game that teaches students about all of the obstacles salmon face throughout their life cycle.

Contact: http://www.soundsalmonsolutions.org/contact-us

Link: http://www.soundsalmonsolutions.org/education-lessons

Time: 45 minutes

Cost: Varies depending on funding, contact for more information

Note: Can be done as a field trip

Sound Salmon Solutions: Macroinvertebrates (Lab option)
Students identify and categorize aquatic benthic macroinvertebrates as a biological indicator of water quality.

Contact: http://www.soundsalmonsolutions.org/contact-us

Link: http://www.soundsalmonsolutions.org/education-lessons

Time: 45-120 minutes

Cost: Varies depending on funding, contact for more information

Note: Can be done as a field trip.

Vashon Nature Center: Nature Presentations
Trained scientists and naturalists offer in-class and outdoor programs designed to foster student awareness and understanding of environmental science topics relevant to their community and tied to global issues. Programs are tailored to suit teachers' classroom teaching goals and align with Next Generation Science Standards.

Contact: info@vashonnaturecenter.org or 206-755-5798

Link: http://vashonnaturecenter.org/what-we-do/scientists-in-schools/

Time: 30-90 minutes
Cost: $50-$150

Note: Areas of focus address the natural history of the Salish Sea and Pacific Northwest. Examples include: watershed education, stormwater management, phenology, freshwater macroinvertebrates, salmon, amphibians, intertidal studies, forage fish, shoreline restoration, biodiversity studies, and methods in field research.

Field Trips

King County DNRP: Water Education: Brightwater Center and South Plant Field Trips

King County and IslandWood educators provide water educational field trips for students in grades 3-8 located at both Brightwater and South Treatment Plant. Field trips can accommodate up to 60 students per day, last 3-4 hours, and are free of charge. Teachers can choose from programs that focus on stormwater, wastewater and water ecosystems.

Contact: KatelynLeeuw@kingcounty.gov

Link: https://kingcounty.gov/services/environment/wastewater/education/school.aspx

Time: 3-4 hours
Cost: No Cost
Transportation: Qualifying schools can access free bus transportation through the Wheels to Water transportation program

*Fieldtrips on hold during 2021 season, but are planning to reopen in 2022. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

King County: Salmon SEEson

During the fall, salmon return to streams and rivers around the Puget Sound. Spot the spawners in the Lake Washington/Cedar/Sammamish and Green/Duwamish and Central Puget Sound watersheds from September to mid-December. Salmon SEEson provides information to help you spy these natural beauties at various times and locations as they make their seasonal journey home each year. Many locations have staff or volunteer naturalists on hand to point out salmon; some are self-guided locations.

Contact: Laura West at lwest@kingcounty.gov or 206-477-7574

Link: www.govlink.org/watersheds/8/action/salmon-seeson/default.aspx

Time: 15-60 minutes
Cost: No Cost
Transportation: Qualifying schools can access free bus transportation through the Wheels to Water program

Note: Flyers, poster, and a website are available to help you find the best time and location for you and your class to see spawning salmon. King County also offers teacher resources, in-class lessons, and projects.

King County: Noxious Weeds

The King County Noxious Weed Control Program can provide presentations and other programs upon request for teachers and students of all levels customized to their curriculum needs. Contact the program for more information or to set up a presentation or field trip.

Contact: noxious.weeds@kingcounty.gov


Time: Variable

Cost: No Cost

Transportation: Qualifying schools can access free bus transportation through the Wheels to Water program

Note: This program can be a presentation or field trip. King County also offers teacher resources and projects.

Camp Fire Seattle: Camp Sealth

Encompassing 400 incredible acres including an extensive trail system, a private beach and numerous diverse ecosystems, Camp Sealth is the perfect venue for experiential education. Camp Fire was established with a strong foundation in providing positive outdoor experiences for youth and it is fundamental to their mission, core values, and programs. We believe in the power of nature to awaken a child’s senses, curiosity, and desire to learn. With a completely inquiry-based program, our students are taught to study and evaluate the natural world. Through hands-on learning, they develop a deeper understanding of the scientific method and we hope – a curiosity and love for the environment. Camp Sealth serves grades K-12 for our Outdoor Education, Retreats, and Day Programs and can create customizable schedules that meet current educational standards by grade level.

Contact: Josh Cunningham at joshc@campfireseattle.org

Link: https://campfireseattle.org/outdoor-education/

Time: Program offered September-June. Typical program is 3 days, 2 nights. Can do both 1 night and week-long programs as well.

Cost: $56 per student per night, $48 per adult per night

Transportation: https://campfireseattle.org/camp-sealth-overnight-camp/all-about-camp-sealth/transportation/

Note: In addition to the Outdoor Education program, Camp Sealth and Camp Fire Central Puget Sound offers rentals of our site for other non-profit groups, over ten community based day camps in various locations in King County during the summer
months, summer resident camp at our Camp Sealth site, and community based group prograving at various locations in King County. For more information about these programs please contact Michael McGrath at the Seattle office at michaelm@campfireseattle.org.

*Environmental Science Center: Beach Heroes*

The Beach Heroes program introduces K-3 students to the local Puget Sound beach habitat and the organisms that live there. During the introductory classroom visit, students will learn beach etiquette and stewardship while learning about the adaptations of the marine invertebrates residing in Puget Sound. During this Next Generation Science Standards-correlated lesson, students will create field guides they will use during their field study. The 1-2 hour field study features both naturalist-led beach exploration and structured activities, during which students will learn all about the habitat restoration of Seahurst Beach! After participating in ESC's Beach Heroes program, students pledge to adopt three behaviors to protect, to conserve, and to educate others about our oceans and marine debris. To honor these students' commitment to environmental stewardship, they receive an Official Beach Hero identification card.

**Contact:** Kelly@environmentalsciencecenter.org or Programs@environmentalsciencecenter.org or 206-248-4266

**Link:** [https://envsciencecenter.org/programs/beach-heroes/](https://envsciencecenter.org/programs/beach-heroes/)

**Time:** 45-minute virtual introduction lesson (1 hour in person) + 1 hour virtual field lesson (2 hours in-person) + optional supplemental videos and activities; an additional 45-60 minutes for the Advanced Beach Heroes option

**Cost:** None for the 2021 season. (Previously: Schools with more than 75% of students qualifying for Free or Reduced Priced Meals (FRPM) - No Charge; Schools with 45-75% students qualifying for FRPM - $50 per class of 30 students; Schools with less than 45% of students qualifying for FRPM - $150 per class of 30 students)

**Transportation:** When not virtual, partial transportation reimbursements are available for schools where more than 45% of students qualify for FRPM

**Note:** Offered April-June

*The 2021 season will be virtual due to COVID-19. Please check the website for the most up-to-date information.*

*Friends of the Issaquah Salmon Hatchery (FISH): Those Amazing Salmon - Hatchery Tours*

Come see the salmon at Issaquah Creek! Watch spawning salmon, see the hatchery in action, and learn about challenges salmon face and what we can do to help them. Scheduled groups of students and adults are led through the hatchery by trained volunteer docents.

**Contact:** education@issaquahfish.org or 425-392-1118

**Link:** [https://www.issaquahfish.org/2021-guided-tours/](https://www.issaquahfish.org/2021-guided-tours/)

**Time:** Tours last 45 minutes to one hour and are available primarily mid-September though early November
Cost: FISH requests a fee of $2 per student when possible.
Transportation: Please contact.
Note: The tour, ideally in conjunction with the Those Amazing Salmon classroom presentation, helps fulfill the state mandate to provide environmental education experiences to students and is aligned to Washington State standards in science and social studies.
*Hatchery grounds are currently closed to the public. Guided tours are permitted with a reservation. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Friends of Soos Creek (Kent): Interpretive Walk
Friends of Soos Creek Park is a non-profit organization comprised of volunteer members who take a pro-active role in preserving and extending the Soos Creek Trail Park and who sponsor and lead park clean-ups and interpretive walks for public education about the importance of wetlands and undisturbed nature. Soos Creek Park is one of south King County's prized wetland habitats. An 8.5 mile trail follows the creek through cattail marshes, forested swamps, wet meadows and willow thickets. This trail is suited to all levels of fitness and is wheelchair accessible. Take any or all of the interpretive walks to learn more about this fascinating area and its wildlife residents. Volunteers from The Friends of Soos Creek Park lead these interpretive walks.
Contact: Kent Parks and Recreation: 253-856-5000 or Covington Parks and Recreation: 253-480-2480
Link: https://www.facebook.com/FriendsOfSoosCreekPark/
Time: Variable
Transportation: Please contact for details
Note: All of the walks take place outdoors, so be sure to dress for the weather

*Mercer Slough Environmental Education Center: Wetland Naturalists
Lab: Students learn what wetlands are and why they are an important ecosystem to protect. With enough time, groups collect their own water samples from the nearby pond to bring back to the classroom. Students then search through the samples to collect Aquatic Macroinvertebrates. Using a video microscope to look closer at each Macro, students record their observations for sharing just like real naturalists.
Hike: The hike shows students how naturalists use plants, soils, and hydrology to do a wetland delineation to better protect the important ecosystem. Students practice their observation skills by using a guided scavenger hunt. With enough time, they learn the challenges of being a migrating bird while playing our Wetland Migration game.
Contact: Elley Vanderline at evanderline@pacsci.org or 425-450-0207
Link: https://www.pacificsciencecenter.org/mercer-slough/teachers-school-groups/
Time: 4 hours, including a 30-minute lunch
Cost: $210 for up to 16 students, $358 for 17-32 students.
Financial assistance and a sliding scale pricing model are available. Email edprograms@pacsci.org to find out if your school qualifies.
Transportation: Please contact.

Note: Programs require a ratio of one chaperone per 16 students. Adults are free of charge. Limited financial assistance is available for qualifying schools!

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Mount Rainier Institute: FieldSCOPES Day Programs
After months of on-line distance education, the need for hands-on, experiential learning is greater than ever. Mount Rainier Institute (MRI) is now offering FieldSCOPES, a series of day-long field experiences and outreach programs, starting in the fall. Our goal is to continue to partner with schools to provide experiences that enhance curriculum, enrich science, and build community. We will work directly with schools to accommodate needs and provide safe and innovative solutions to school re-opening plans.
FieldSCOPES programs are designed to provide students with a hands-on education experience in a safe outdoor classroom. FieldSCOPES has options for every grade level. FieldSCOPES also includes Outreach programs where Mount Rainier Institute instructors come to your school.
Contact: John Hayes, Mount Rainier Institute Director, at jhayes90@uw.edu or 253-692-4161.
Cost: Costs range from $20 per person. Mount Rainier Institute, the National Park Service and our partners are committed to providing scholarships to ensure students from all backgrounds have the opportunity to participate.
Link: https://rainierinstitute.org/fieldscopes-day-programs.html

Nature Vision: Stream and Wetland Connections
These are 2-part programs. Stream Connections: a Nature Vision educator will lead an in-class discussion and field trip at your local stream while facilitating a variety of activities related to salmon and the effects of stormwater. Wetland Connections: a Nature Vision educator will lead an in-class discussion and field trip at your local wetland, retention pond, or location of your choice to facilitate activities that show the importance of these unique ecosystems in helping manage the effects of stormwater runoff. All activities support WA State K-12 Learning Standards and are customized to the watershed in which the stream or wetland is located. This allows students to make connections to their local environment and learn how they can become stewards where it matters to them most.
Link: https://naturevision.org/school-programs/
Time: 1-2 hours
Cost: $220 per 2 part program. May also register for one part for $110.
Transportation: Must provide own transportation.
Note: Free programs may be available, please email info@naturevision.org for more information. Nature Vision also offers in-class lessons and projects.

*Pacific Marine Research: Marine Science Afloat
Students learn to love and appreciate Puget Sound on our scientific expedition aboard the *Spirit of 76* floating classroom. Haul in the plankton nets! Spy into the invisible watery world in the microscope lab! Meet your slimy and squishy underwater neighbors! Follow along with a team of scientific divers as they explore the depths beneath the boat and introduce students to the animals below with a LIVE underwater video system. And most importantly, learn how your daily actions can help protect this magnificent, but delicate ecosystem that we all share.

**Contact:** fieldtrips@marinescienceafloat.org or 206-361-1919  
**Link:** [https://www.pacificmarineresearch.org/pages/marine-science-afloat](https://www.pacificmarineresearch.org/pages/marine-science-afloat)  
**Time:** 5.5 hours  
**Cost:** $40 per person for the first 15 people; plus one complimentary chaperone per every 10 additional students. (Scholarships available)  
**Transportation:** Must provide own transportation.  
**Note:** Fall season runs from Labor Day to mid-November. Spring season takes place from mid-March to mid-June.

*Program fieldtrips currently on hold. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

**Seattle Aquarium: Orca Discovery**  
What do you have in common with an orca? Discover the connections we share by comparing the life cycle and physical structure of orcas to humans while building a life-size whale skeleton. Instructors will lead students in a discussion of how our actions can negatively and positively affect these amazing animals. (Max class size 32).  
**Link:** [https://www.seattleaquarium.org/site-classroom-programs](https://www.seattleaquarium.org/site-classroom-programs)  
**Time:** 60 minutes  
**Cost:** $10 each (This is the price of aquarium admission for adults and youth 4 and up)  
**Transportation:** Inquire at registration  
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

**Seattle Aquarium: Puget Sound Plankton Discovery**  
Discover the most abundant organisms in Puget Sound: plankton! After conducting their own plankton tow, students will use microscopes to identify different types of plankton and learn about the role plankton plays in providing food for all as the base of the marine food web. (Max class size 32)  
**Link:** [https://www.seattleaquarium.org/site-classroom-programs](https://www.seattleaquarium.org/site-classroom-programs)  
**Time:** 60 minutes  
**Cost:** $10 each (This is the price of aquarium admission for adults and youth 4 and up)  
**Transportation:** Inquire at registration  
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

**Seattle Aquarium: Hands-on Tide Pool Discovery**
Get up close and hands on with live tide pool animals. Through the use of puppets, live animals and discussion, students will learn about how these animals survive in their ever-changing habitat and how simple actions can help protect them.

**Link:** [https://www.seattleaquarium.org/site-classroom-programs](https://www.seattleaquarium.org/site-classroom-programs)

**Time:** 60 minutes

**Cost:** $10 each (This is the price of aquarium admission for adults and youth 4 and up)

**Transportation:** Please contact.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

*Seattle Parks and Recreation: Camp Long*

Bringing science, environmental education, and experiential learning to your parks. Seattle Parks and Recreation’s Environmental Education and Outdoor Learning staff provide opportunities for grades K-12 and organized groups, such as scouts and camps, to experience age-appropriate, hands-on adventures in learning about natural communities in an urban setting. Programs align with WA State Essential Academic Learning Requirements for core content areas and support science kits.

- **Ponds (spring and summer only):** Experience the freshwater habitats of a city park at Camp Long or Discovery Park. Waddling ducks, wriggling tadpoles, and dancing dragonflies are some of the creatures they may see as they explore what makes these places so special.
- **Forest:** Camp Long and Discovery Park have lots of forest habitat to explore. Venture through the trees looking for clues to animal habits, hiding places, and seasonal happenings. Forest programs empower participants to feel comfortable in the outdoors.

**Link:** [https://www.seattle.gov/parks/find/centers/camp-long/camps](https://www.seattle.gov/parks/find/centers/camp-long/camps)

**Transportation:** Please contact.

*Not offering Nature Camps for the 2021 season, planning to reopen in 2022. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

*Sound Experience: Sound Studies Program*

The goal of a Sound Studies program, as with all programs offered by Sound Experience, can be summarized in a single word: awareness. They believe that people will protect what they learn to value. The most effective way to have a lasting impact is to meet the following goals for every program. Goals for participants: Leave with a heightened awareness of Puget Sound as a fragile ecosystem, understand the concept of a whole system, and understand how *Advenutress* and the earth both illustrate this concept. Recognize the interrelationships that exist between all life. Identify the positive and negative impacts that they as individuals have on the Puget Sound ecosystem. Recognize their ability to take action by raising others’ awareness and by making responsible choices. Understand the necessity of cooperation as a course to action. Learn that Puget Sound is an incredible, diverse, and productive ecosystem and that the
waterways we all share are fragile and need our care. Most importantly, students learn that they can make a difference. Experience working together to raise sails and learn about all the factors that help make a traditional sailing vessel function. When you join us for a day trip, your group will take part in an active learning and working voyage. On board our vessel, participants are able to experience how community, nature, culture, and infrastructure all interact and shape each other. Contact: Amy Kovacs at amy@soundexp.org or 360-379-0438 ext. 2 Link: https://www.soundexp.org/sail-with-us/schoolsyouth-groups/
Time: 3 or 5 hours
Cost: Off Peak Rates (October 1-April 30): $1150 for 3 hours, $1675 for 5 hours. Peak Rates (May 1-September 30): $1210 for 3 hours, $1760 for 5 hours; inquire about scholarship opportunities that may be available
Transportation: Please contact.
Note: The Adventuress sails out of many ports, including: Everett, Olympia, Seattle, and Tacoma.
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Sound Salmon Solutions: Macroinvertebrates
Students identify and categorize aquatic benthic macroinvertebrates as a biological indicator of water quality.
Contact: http://www.soundsalmonsolutions.org/contact-us
Link: http://www.soundsalmonsolutions.org/education-lessons
Time: 45-120 minutes
Cost: Varies depending on funding, contact for more information
Note: Can be done as an in-class lab.

Projects

Nature Vision: Blue Teams
Nature Vision offers Blue Teams, a student stewardship project funded by our water sponsors. Blue Teams are groups of kindergarten-12th grade students who commit to taking on and completing a watershed stewardship project. Students complete projects such as invasive plant removal, native plant restoration, planting water-wise gardens, finding and fixing leaks, and much more.
The Blue Team program was developed to educate local youth about water resources and related ecosystems, foster sustainable stewardship values and practices in the community through hands-on youth projects, and to empower youth to take positive steps to improve their local environment.
Blue Teams receive Nature Vision’s help in planning, preparing for, and executing their projects at school or at an off-campus project site, as well as regular teacher consultations via phone or email. Teachers/Instructors may register their class or youth...
Nature Vision: Community Science

Community science is a process by which members of the public can participate in important scientific research. Under the guidance of a Nature Vision educator, students will work as scientists and help record data on the health of their local waterways. Students start their programs with a brief introduction to community science and the scientific method, before learning and practicing how to collect valuable data on water quality. Using these new skills, they can then investigate a local body of water and analyze real-world data in order to help local scientists monitor the health of their watershed.

These programs can be arranged either as a stand-alone series of classes, or as a part of a longer Blue Team module. We encourage teachers to schedule the programs at regular intervals each year in order to collect a body of data that can be referenced by each new class. Every year students may add their findings to the classes that came before them, providing an even better sense of the health of their local waterways over time.

Link: https://naturevision.org/community-science
Contact: info@naturevision.org
Time: Variable
Cost: Free for most schools. Inquire about free programs with info@naturevision.org
Transportation: Must provide own transportation.
Note: Community Science is now virtual, inquire about options for virtual programs.

Nature Vision also offers in-class and virtual lessons and field trips.

Sound Salmon Solutions: Tree Planting

Students are given an opportunity to plant native trees and shrubs on an active habitat restoration site.
Contact: http://www.soundsalmonsolutions.org/contact-us
Link: http://www.soundsalmonsolutions.org/education-lessons
Time: 60-90 minutes
Cost: Varies, possibly free depending on funding, contact for more information
Remote Learning

These are remote learning options for classrooms or home learning

King County DNRP: Water Education Series
When It Rains, It Pours Virtual Series (aimed at grades 3-5): This 3-session series of lessons will build students’ understanding of the interactions that stormwater has with the ecosystems and communities they inhabit. Synchronous or video-taped sessions led by educators are designed for students and families to engage in activities they can do at home.

Wastewater Engineers Virtual Series (aimed at grades 3-6): This 4-session series of lessons will teach students how wastewater is cleaned, and how their daily choices have a direct impact on the water cycle. Sessions are designed for students to use the engineering design process while they “visit” a wastewater treatment plant, carry out investigations, and learn how to become stewards of their water system. Lessons can be synchronous or are offered as video-taped lessons.
Contact: Katelyn.Leeuw@kingcounty.gov
Link: https://kingcounty.gov/services/environment/wastewater/education/school.aspx
Time: 60 minute sessions
Cost: No cost

Burke Museum Virtual Education Programs: Virtual Field Trips
Web-based, virtual tours of the museum. Designed to support classroom curriculum, our Virtual Field Trips are interactive, self-paced experiences. All you need is an internet connection and web browser to get started.
Link: https://www.burkemuseum.org/education/educators-and-schools/virtual-education-programs
Time: 30 minutes
Cost: $40; cost assistance is available for qualifying schools, organizations, and groups.

Burke Museum Virtual Education Programs: Burke LIVE
Have a Burke educator join your class live from our learning studio. Each program includes an interactive discussion or activity related to the topic, a closer look at real Burke collections and a chance for Q&A! You’ll also receive pre- and post-program materials to help prepare your students for the live experience and extend their learning afterwards.
Link: https://www.burkemuseum.org/education/educators-and-schools/virtual-education-programs
Time: 45 minutes
Cost: $90, Cost assistance is available for qualifying schools, organizations, and groups.
Mountain to Sound Greenway Trust: Virtual Education

Mountain to Sound Greenway Trust has a virtual education series of videos and activities to do at home. Topics include: Forest and Fins, Next Generation Stewards, Salmon SEEson, Kokanee Salmon, and alternative ideas to explore nature while staying close to home.

Link: https://mtsgreenway.org/get-involved/education/virtual-education/
Cost: No cost

Nature Vision: Student Packets

Nature Vision has developed seven science packets for K-12 students: Ecological Impacts, Water Quality, Human Systems, Invasive Plants, Ecosystems, Watersheds, and Humans and Water. Each free downloadable packet includes the following:
1. Teacher Overview
2. Parent/Caregiver Overview
3. Daily Student Science Lessons

Contact: info@naturevision.org
Link: https://naturevision.org/student-packets
Cost: No cost

Nature Vision: Remote Learning and Video Call Programs

Nature Vision has adapted many of our most popular in-class programs into two virtual formats for increased accessibility! We now offer synchronous full-length video call programs and asynchronous remote curriculum program options for teachers, parents, and caregivers to use during the upcoming school year. These programs are designed to accommodate both fully remote and hybrid teaching options for each school district Nature Vision serves. The programs are flexible to best fit teachers’ schedules, student needs, and current WA State K-12 Learning Standards with STEM education as a central focus. Each full-length video call program is 45-60 minutes live with one of our educators. Each remote learning program includes videos of our engaging Nature Vision Educators, detailed instructions for teachers/parents/caregivers to lead interactive activities, and a live Q&A session with an educator.

Link: https://naturevision.org/remote-learning-programs
Time: Roughly 1 hour between videos, activities, and Q&A sessions
Cost: Free for most schools. Otherwise $85-$90
Note: Free programs are available to most schools, please email info@naturevision.org for more information. Nature Vision also offers classroom programs, field trips, and projects.

Seattle Aquarium: Digital Learning Opportunities

All of our programs focus on the marine ecosystems of the Pacific Northwest. Our educators will guide you and up to 32 of your students over video conferencing software through lessons that support Next Generation Science Standards while giving your students agency to influence the class based on their prior knowledge and interests. Each of our classes has a grade level range, and within that range our skilled educators
will tailor the class for your specific grade level. Many classes also include special live animal interactions with the tide pool creatures in our care.

**Link:** [https://www.seattleaquarium.org/distance-learning](https://www.seattleaquarium.org/distance-learning)

**Time:** 45 minutes

**Cost:** $150, Scholarships available for those eligible.

**Pacific Marine Research: Marine Science Remote**

Book our series of 3 one hour live sessions and join our naturalists as they guide you through Plankton Lab, our Live Dive and an Invertebrate Food Chains Lesson or a more advanced Invertebrate Taxonomy with live critters. Meet our divers and ask them questions in real time as they take you underwater during the Live Dive. We will also include Water Quality Data collected on the day of this live portion. The live stream will allow for students to ask questions and interact with naturalists and scuba divers in real-time.

**Contact:** fieldtrips@marinescienceafloat.org or 206-361-1919

**Link:** [https://www.pacificmarineresearch.org/pages/marine-science-remote/](https://www.pacificmarineresearch.org/pages/marine-science-remote/)

**Time:** Three 1 hour sessions

**Cost:** $250, scholarships available

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**Classroom Visitors**

These programs are taught by an informal educator from various organizations in your classroom.

**King County DNRP: Water Education**

Clean Water Challenge (grades 4-5): This is a 90-minute program led by King County and Islandwood staff inside your school. The lesson is Next Generation Science Standards (NGSS) aligned and focuses on our local wastewater system. In this lesson students will investigate how we impact the water in our communities, discover what we are doing to clean it up and what actions we can take to keep our water clean. Students will use the engineering design process to explore the impacts that humans have on our water system and will learn how the choices they make on a daily basis impact our water system.

Stormwater in your Schoolyard (grades 3-5): This is a 90-minute program led by IslandWood and King County staff outside in your school yard. The lesson is Next Generation Science Standards (NGSS) aligned and site specific, building upon students' prior experiences and understanding of their schoolyard. Students will investigate how stormwater moves through their school yard, identify stormwater problems, and collaborate with their peers to design solutions. This lesson introduces students to concepts related to stormwater, the engineering solutions that were put in place at their school, the engineering design process and using scientific practices and skills in
the student’s home community. Students identify areas in their schoolyard where they see or have seen stormwater issues, research those areas, and then use this knowledge to begin the process of developing a potential solution.

**Contact:** Katelyn.Leeuw@kingcounty.gov  
**Link:** https://kingcounty.gov/services/environment/wastewater/education/school.aspx  
**Cost:** No cost

**King County: Noxious Weeds**

The King County Noxious Weed Control Program can provide presentations and other programs upon request for teachers and students of all levels customized to their curriculum needs. Contact the program for more information or to set up a presentation or field trip.

**Contact:** noxious.weeds@kingcounty.org  
**Link:** http://www.kingcounty.gov/services/environment/animals-and-plants/noxious-weeds/school.aspx  
**Time:** Variable  
**Cost:** No Cost  
**Note:** This program can be a presentation or field trip. King County also offers teacher resources and projects.

**City of Duvall: Surface Water Management Classroom Visitor**

Larissa Polanco, Assistant City Engineer. Discussion adapted to what you are teaching in the classroom.

**Contact:** Larissa Polanco at larissa.polanco@duvallwa.gov and 425-788-3434 ext. 8040  
**Link:** http://www.duvallwa.gov/305/sewer-water-stormwater  
**Time:** Variable  
**Cost:** No Cost

**City of Newcastle: Surface Water Management Classroom Visitor**

The Surface Water Program Manager can speak to your class about surface water management, with an emphasis on what you are currently talking about in the classroom.

**Contact:** Audrie Starsy at audries@newcastlewa.gov or 425-649-4444 ext. 111  
**Link:** http://newcastlewa.gov/departments/public_works/surface_water_management/  
**Time:** Variable  
**Cost:** No Cost

**Eastside Audubon: Classroom Workshops**

These workshops teach K-12 students what makes a bird a bird and how to identify common birds seen in our area. Each workshop is on a different topic and has specific activities included. Workshop topics include: Introduction to Birds, Bird Identification, Using Binoculars, Bird Beaks and Food, and more!

**Contact:** youthprograms@eastsideaudubon.org
Link: https://www.eastsideaudubon.org/youth-education
Time: Depends on workshop topic
Cost: No cost
Note: Can be adapted by the volunteer to address stormwater runoff effects specifically. Programs are offered in communities from Bellevue to Woodinville/Bothell and from East Lake Washington to North Bend.

*Environmental Science Center: Salmon Heroes
The Salmon Heroes program introduces 4th-12th grade students to salmon habitat needs and stormwater pollution solutions in the Puget Sound watershed. Classroom Lessons & Field Study Investigation: During the 1-hour pre-field study classroom lesson, students will engage in hands-on, Next Generation Science Standards-correlated activities that explore the habitat needs of salmon – as well as the challenges to survival that salmon face – during each stage of the salmon life cycle. During the 3-hour field study, students review the salmon life cycle, learn external and internal anatomy, collect water quality data, learn about the changes that the local community can make to their behaviors in order to make the watershed a better habitat for salmon, and then play a large-group game that mimics the challenges salmon face in making it back to their spawning grounds. During the 1-hour post-visit classroom lesson, students analyze the water quality data they collected in the field and compare it to previous year’s data, and to data collected from a different local creek. Students will then evaluate different actions that people can take in order to lessen their impact on salmon population health.
Contact: programs@environmentalsciencecenter.org or 206-248-4266
Link: https://envsciencecenter.org/salmon-heroes/
Time: 2 hours (in classroom) + 3 hours (field trip to Normandy Park Cove)
Cost: Schools with more than 75% of students qualifying for Free or Reduced Priced Meals (FRPM) - No Charge; Schools with 45-75% students qualifying for FRPM - $50 per class of 30 students; Schools with less than 45% of students qualifying for FRPM - $350 per class of 30 students
Transportation: Partial transportation reimbursements are available for schools where more than 45% of students qualify for FRPM
Note: Offered September-December. In-person and virtual program offerings available in 2021.
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Friends of the Issaquah Salmon Hatchery (FISH): Those Amazing Salmon
This popular presentation consists of a 45- to 60-minute slide show, discussion, and question-and-answer session. After the slide show, teachers have the option of a watershed activity, quiz game, or Native American legend activity for their class.
Contact: education@issaquahfish.org or 425-393-1118
Link: www.issaquahfish.org/teachers-school-programs/
**Friends of the Issaquah Salmon Hatchery (FISH): Enviroscape - a Watershed Model**

Using a table-top watershed model, students “pollute” the land, make it “rain,” and watch how pollution can affect the watershed. They then come up with solutions to pollution problems and identify things they can do to keep our watersheds (and salmon!) healthy.

**Contact:** education@issaquahfish.org or 425-393-1118

**Link:** [http://www.issaquahfish.org/teachers-school-programs/](http://www.issaquahfish.org/teachers-school-programs/)

**Cost:** $50 per class requested

**Note:** Offered November-June. FISH also offers field trips.

**Nature Vision: Watershed Programs**

A Nature Vision educator will visit your classroom to facilitate hands-on lessons that highlight the challenges our local watershed faces with stormwater runoff. Each hour-long lesson focuses on specific concepts related to stormwater. Lessons can stand alone or be combined into units that offer a more complete picture of stormwater. Units can be for one grade level or used to scaffold throughout multiple grade levels at a school. Every lesson is designed to support WA State K-12 Learning Standards and help students understand what they can do to reduce the effects of stormwater runoff.

**Link:** [https://naturevision.org/school-programs/](https://naturevision.org/school-programs/)

**Cost:** Free for most schools. Otherwise $110 per in-person lesson, $85-90 for remote

**Note:** Free programs are available to most schools, please email info@naturevision.org for more information. Nature Vision also offers field trips and projects. Nature Vision can also provide classroom programs virtually over video call at 45-60 minutes.

**Sound Salmon Solutions: Hooks and Ladders**

Students become spawning salmon in this fun, interactive game that teaches students about all of the obstacles salmon face throughout their life cycle.

**Contact:** [http://www.soundsalmonsolutions.org/contact-us](http://www.soundsalmonsolutions.org/contact-us)

**Link:** [http://www.soundsalmonsolutions.org/education-lessons](http://www.soundsalmonsolutions.org/education-lessons)

**Cost:** Varies depending on funding, contact for more information

**Note:** Can be done as a field trip

**Sound Salmon Solutions: Macroinvertebrates (Lab option)**
Students identify and categorize aquatic benthic macroinvertebrates as a biological indicator of water quality.

Contact: [http://www.soundsalmonsolutions.org/contact-us](http://www.soundsalmonsolutions.org/contact-us)
Link: [http://www.soundsalmonsolutions.org/education-lessons](http://www.soundsalmonsolutions.org/education-lessons)
Time: 45-120 minutes
Cost: Varies depending on funding, contact for more information
Note: Can be done as a field trip

Sound Salmon Solutions: Erosion Modeling
Students will understand the scientific method by conducting an investigation that explores the factors that increase or decrease erosion using a model they build.

Contact: [http://www.soundsalmonsolutions.org/education](http://www.soundsalmonsolutions.org/education)
Link: [http://www.soundsalmonsolutions.org/education-lessons](http://www.soundsalmonsolutions.org/education-lessons)
Time: 120 minutes
Cost: Varies, possibly free depending on funding, contact for more information
Note: Can be done as a field trip

Vashon Nature Center: Nature Presentations
Trained scientists and naturalists offer in-class and outdoor programs designed to foster student awareness and understanding of environmental science topics relevant to their community and tied to global issues. Programs are tailored to suit teachers' classroom teaching goals and align with Next Generation Science Standards.

Contact: info@vashonnaturecenter.org or 206-755-5798
Time: 30-90 minutes
Cost: $50-$150
Note: Areas of focus address the natural history of the Salish Sea and Pacific Northwest.
Examples include: watershed education, stormwater management, phenology, freshwater macroinvertebrates, salmon, amphibians, intertidal studies, forage fish, shoreline restoration, biodiversity studies, and methods in field research.

Field Trips

King County DNRP: Water Education: Brightwater Center and South Plant Field Trips
King County and IslandWood educators provide water educational field trips for students in grades 3-8 located at both Brightwater and South Treatment Plant. Field trips can accommodate up to 60 students per day, last 3-4 hours, and are free of charge. Teachers can choose from programs that focus on stormwater, wastewater and water ecosystems.

Contact: KatelynLeeuw@kingcounty.gov
Link: [https://kingcounty.gov/services/environment/wastewater/education/school.aspx](https://kingcounty.gov/services/environment/wastewater/education/school.aspx)
Time: 3-4 hours
King County: Salmon SEEsOn
During the fall, salmon return to streams and rivers around the Puget Sound. Spot the spawners in the Lake Washington/Cedar/Sammamish and Green/Duwamish and Central Puget Sound watersheds from September to mid-December. Salmon SEEson provides information to help you spy these natural beauties at various times and locations as they make their seasonal journey home each year. Many locations have staff or volunteer naturalists on hand to point out salmon; some are self-guided locations.

Contact: Laura West at lwest@kingcounty.gov or 206-477-7574
Link: www.govlink.org/watersheds/8/action/salmon-seeson/default.aspx
Time: 15-60 minutes
Cost: No Cost
Transportation: Qualifying schools can access free bus transportation through the Wheels to Water program
Note: Flyers, poster, and a website are available to help you find the best time and location for you and your class to see spawning salmon. King County also offers teacher resources, in-class lessons, and projects.

King County: Noxious Weeds
The King County Noxious Weed Control Program can provide presentations and other programs upon request for teachers and students of all levels customized to their curriculum needs. Contact the program for more information or to set up a presentation or field trip.

Contact: noxious.weeds@kingcounty.gov
Time: Variable
Cost: No Cost
Transportation: Qualifying schools can access free bus transportation through the Wheels to Water program
Note: This program can be a presentation or field trip. King County also offers teacher resources and projects.

Camp Fire Seattle: Camp Sealth
Encompassing 400 incredible acres including an extensive trail system, a private beach and numerous diverse ecosystems, Camp Sealth is the perfect venue for experiential education. Camp Fire was established with a strong foundation in providing positive
outdoor experiences for youth and it is fundamental to their mission, core values, and programs. We believe in the power of nature to awaken a child’s senses, curiosity, and desire to learn. With a completely inquiry-based program, our students are taught to study and evaluate the natural world. Through hands-on learning, they develop a deeper understanding of the scientific method and we hope – a curiosity and love for the environment. Camp Sealth serves grades K-12 for our Outdoor Education, Retreats, and Day Programs and can create customizable schedules that meet current educational standards by grade level.

Contact: Josh Cunningham at joshc@campfireseattle.org
Link: https://campfireseattle.org/outdoor-education/
Time: Program offered September-June. Typical program is 3 days, 2 nights. Can do both 1 night and week-long programs as well.
Cost: $56 per student per night, $48 per adult per night
Transportation: https://campfireseattle.org/camp-sealth-overnight-camp/all-about-camp-sealth/transportation/

Note: In addition to the Outdoor Education program, Camp Sealth and Camp Fire Central Puget Sound offers rentals of our site for other non-profit groups, over ten community based day camps in various locations in King County during the summer months, summer resident camp at our Camp Sealth site, and community based group programming at various locations in King County. For more information about these programs please contact Michael McGrath at the Seattle office at michaelm@campfireseattle.org.

*Cedar River Watershed Center: Seeing the Source
This field trip journeys to the heart of the Cedar River Municipal Watershed. Naturalist-led, hands-on activities encourage understanding of water cycles, watersheds, water quality, erosion, cultural history, riparian areas, and wildlife. Students See-the-Source of their mountain-fed drinking water supply, plus discover the importance of protecting and conserving it for fish and people.
Contact: crwprograms@seattle.gov
Time: 3 ½ hours
Cost: No Cost
Transportation: Please contact.
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Cedar River Watershed Center: Land and Water
This field trip explores features and highlights of the award winning Education Center and its surroundings. Students participate in naturalist-led, hands-on activities that help students make the connections between land, water, and people. Students experience the Water is Magic exhibits and travel through the water cycle, listening to stories of the
past and present while learning about their mountain fed drinking water source. They will also walk the shores of Rattlesnake Lake with water testing kits and return to the learning labs to closely examine the natural world with high quality microscopes.

**Contact:** crwprograms@seattle.gov

**Time:** 3 ½ hours

**Cost:** No Cost

**Transportation:** Please contact.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

**Environmental Science Center: Salmon Heroes**

The Salmon Heroes program introduces 4th-12th grade students to salmon habitat needs and stormwater pollution solutions in the Puget Sound watershed. Classroom Lessons & Field Study Investigation: During the 1-hour pre-field study classroom lesson, students will engage in hands-on, Next Generation Science Standards-correlated activities that explore the habitat needs of salmon – as well as the challenges to survival that salmon face – during each stage of the salmon life cycle. During the 3-hour field study, students review the salmon life cycle, learn external and internal anatomy, collect water quality data, learn about the changes that the local community can make to their behaviors in order to make the watershed a better habitat for salmon, and then play a large-group game that mimics the challenges salmon face in making it back to their spawning grounds. During the 1-hour post-visit classroom lesson, students analyze the water quality data they collected in the field and compare it to previous year’s data, and to data collected from a different local creek. Students will then evaluate different actions that people can take in order to lessen their impact on salmon population health.

**Contact:** programs@environmentalsciencecenter.org or 206-248-4266

**Link:** https://envsciencecenter.org/salmon-heroes/

**Time:** 2 hours (in classroom) + 3 hours (field trip to Normandy Park Cove)

**Cost:** Schools with more than 75% of students qualifying for Free or Reduced Priced Meals (FRPM) - No Charge; Schools with 45-75% students qualifying for FRPM - $50 per class of 30 students; Schools with less than 45% of students qualifying for FRPM - $350 per class of 30 students

**Transportation:** Partial transportation reimbursements are available for schools where more than 45% of students qualify for FRPM

**Note:** Offered September-December. In-person and virtual program offerings available in 2021.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

**Friends of the Issaquah Salmon Hatchery (FISH): Those Amazing Salmon - Hatchery Tours**

Come see the salmon at Issaquah Creek! Watch spawning salmon, see the hatchery in action, and learn about challenges salmon face and what we can do to help them.
Scheduled groups of students and adults are led through the hatchery by trained volunteer docents.

Contact: education@issaquahfish.org or 425-392-1118
Link: https://www.issaquahfish.org/2021-guided-tours/
Time: Tours last 45 minutes to one hour and are available primarily mid-September though early November
Cost: FISH requests a fee of $2 per student when possible.
Transportation: Please contact.

Note: The tour, ideally in conjunction with the Those Amazing Salmon classroom presentation, helps fulfill the state mandate to provide environmental education experiences to students and is aligned to Washington State standards in science and social studies.

*Hatchery grounds are currently closed to the public. Guided tours are permitted with a reservation. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Friends of Soos Creek (Kent): Interpretive Walk
Friends of Soos Creek Park is a non-profit organization comprised of volunteer members who take a pro-active role in preserving and extending the Soos Creek Trail Park and who sponsor and lead park clean-ups and interpretive walks for public education about the importance of wetlands and undisturbed nature. Soos Creek Park is one of south King County's prized wetland habitats. An 8.5 mile trail follows the creek through cattail marshes, forested swamps, wet meadows and willow thickets. This trail is suited to all levels of fitness and is wheelchair accessible. Take any or all of the interpretive walks to learn more about this fascinating area and its wildlife residents. Volunteers from The Friends of Soos Creek Park lead these interpretive walks.

Contact: Kent Parks and Recreation: 253-856-5000 or Covington Parks and Recreation: 253-480-2480
Link: https://www.facebook.com/FriendsOfSoosCreekPark/
Time: Variable
Transportation: Please contact for details
Note: All of the walks take place outdoors, so be sure to dress for the weather

*Mercer Slough Environmental Education Center: Wetland Naturalists
Lab: Students learn what wetlands are and why they are an important ecosystem to protect. With enough time, groups collect their own water samples from the nearby pond to bring back to the classroom. Students then search through the samples to collect Aquatic Macroinvertebrates. Using a video microscope to look closer at each Macro, students record their observations for sharing just like real naturalists.
Hike: The hike shows students how naturalists use plants, soils, and hydrology to do a wetland delineation to better protect the important ecosystem. Students practice their observation skills by using a guided scavenger hunt. With enough time, they learn the challenges of being a migrating bird while playing our Wetland Migration game.
Contact: Elley Vanderline at evanderline@pacsci.org or 425-450-0207
Link: https://www.pacificsciencecenter.org/mercer-slough/teachers-school-groups/
Time: 4 hours, including a 30-minute lunch
Cost: $210 for up to 16 students, $358 for 17-32 students.
Financial assistance and a sliding scale pricing model are available. Email edprograms@pacsci.org to find out if your school qualifies.
Transportation: Please contact.
Note: Programs require a ratio of one chaperone per 16 students. Adults are free of charge. Limited financial assistance is available for qualifying schools!

*Please check the website for most up-to-date information regarding closures or modifications due to COVID-19.

*Mercer Slough Environmental Education Center: Ecosystem Explorers
Lab: Students start their lab experience with a hands on activity to help them understand the relationships between biotic and abiotic factors in an ecosystem. Having this knowledge, they complete population counts of producers, consumers and decomposers in a pond ecosystem before studying their samples on a video microscope for closer investigation.
Hike: On the hike, students continue their exploration of producer, consumer and decomposer population counts in the wetland and forest ecosystems. These results then guide a discussion of energy flow in ecosystem on a broader level. If there is enough time, students play a game that demonstrates how important decomposers are for the energy flow of an ecosystem.
Contact: Elley Vanderline at evanderline@pacsci.org or 425-450-0207
Link: https://www.pacificsciencecenter.org/mercer-slough/teachers-school-groups/
Time: 4 hours, including a 30 min lunch
Cost: $210 for up to 16 students, $358 for 17-32 students.
Financial assistance and a sliding scale pricing model are available. Email edprograms@pacsci.org to find out if your school qualifies.
Transportation: Please contact.
Note: Programs require a ratio of one chaperone per 16 students. Adults are free of charge. Limited financial assistance is available for qualifying schools!

*Please check the website for most up-to-date information regarding closures or modifications due to COVID-19.

Mount Rainier Institute: FieldSCOPES Day Programs
After months of on-line distance education, the need for hands-on, experiential learning is greater than ever. Mount Rainier Institute (MRI) is now offering FieldSCOPES, a series of day-long field experiences and outreach programs, starting in the fall. Our goal is to continue to partner with schools to provide experiences that enhance curriculum, enrich science, and build community. We will work directly with schools to accommodate needs and provide safe and innovative solutions to school re-opening plans.
FieldSCOPES programs are designed to provide students with a hands-on education
experience in a safe outdoor classroom. FieldSCOPES has options for every grade level. FieldSCOPES also includes Outreach programs where Mount Rainier Institute instructors come to your school.

**Contact:** John Hayes, Mount Rainier Institute Director, at *jhayes90@uw.edu* or 253-692-4161.

**Cost:** Costs range from $20 per person. Mount Rainier Institute, the National Park Service and our partners are committed to providing scholarships to ensure students from all backgrounds have the opportunity to participate.

**Link:** [http://www.rainierinstitute.org/fieldscopes-day-programs.html](http://www.rainierinstitute.org/fieldscopes-day-programs.html)

*M*ountains to Sound Greenway Trust: *Earth Underfoot*

*Inspects the impact of invasive plants on the landscape. Students identify native and invasive plants found in Pacific Northwest forests in preparation for a stewardship event. At the stewardship event students may remove invasive plant species, plant native and shrubs, or work in our native plant nursery.*

**Contact:** Becca Kedenburg at *becca.kedenburg@mtsgreenway.org*

**Link:** [www.mtsgreenway.org/education](http://www.mtsgreenway.org/education)

**Time:** Variable

**Transportation:** King County Metro provides a limited number or *Wheels to Water* buses to transport students on their field trip.

**Note:** Each curriculum includes an introductory lesson (taught by the classroom teacher), an in-class lesson, a field study trip to a nearby forest, and an optional stewardship event. Depending on the season, a stewardship event might involve removing blackberry, planting native trees and shrubs, or working in our native plant nursery. Eligible schools have a free and reduced lunch percentage of at least 25 percent. Financial assistance is available for a limited number of buses to the stewardship event.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

**N**ature **B**ridge: *Environmental Science Program*

*NatureBridge environmental science programs in Olympic National Park offer students in grades K-12 the opportunity to learn hands-on science in an International Biosphere Reserve. The three to five-day residential outdoor science programs are led by experienced educators and customized to enhance your school’s curriculum. A classroom without walls: located on the shore of glacially carved Lake Crescent, students can investigate old growth forests, wilderness coasts, and alpine peaks. Inquiry-based learning: motivated by their own curiosity, students monitor the dynamic Elwha River system, collect and identify macroinvertebrates in Barnes Creek, and study the adaptations of local mammals in the skins and skulls lab. Responsible actions: students are inspired to make informed decisions about what constitutes a healthy relationship between natural and human communities, their role in that relationship and appropriate actions they can take to sustain it.*
Request Information: olympicreservations@naturebridge.org or 206-382-6212
Link: https://naturebridge.org/olympic/school-group
Time: 3-5 days
Cost: Price range for programs can be found here: https://naturebridge.org/programs/olympic-school-environmental-science#rates-and-availability

Rates vary based on time of year. For the standard season (March-August) 3 days/2 nights starts at $298 per student. For off-peak season (February-March) 3 days/2 nights starts at $267 per student. Need-based scholarships available and additional optional services available. Tuition includes quality customized environmental science education; on-site lodging in heated, dormitory cabins on the shores of Lake Crescent; and home-style all-you-can-eat buffet meals.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Nature Vision: Stream and Wetland Connections
These are 2-part programs. Stream Connections: a Nature Vision educator will lead an in-class discussion and field trip at your local stream while facilitating a variety of activities related to salmon and the effects of stormwater. Wetland Connections: a Nature Vision educator will lead an in-class discussion and field trip at your local wetland, retention pond, or location of your choice to facilitate activities that show the importance of these unique ecosystems in helping manage the effects of stormwater runoff. All activities support WA State K-12 Learning Standards and are customized to the watershed in which the stream or wetland is located. This allows students to make connections to their local environment and learn how they can become stewards where it matters to them most.

Link: https://naturevision.org/school-programs/
Time: 1-2 hours
Cost: $220 per 2 part program. May also register for one part for $110.
Transportation: Must provide own transportation.
Note: Free programs may be available, please email info@naturevision.org for more information. Nature Vision also offers in-class lessons and projects.

*Pacific Marine Research: Marine Science Afloat
Students learn to love and appreciate Puget Sound on our scientific expedition aboard the Spirit of 76 floating classroom. Haul in the plankton nets! Spy into the invisible watery world in the microscope lab! Meet your slimy and squishy underwater neighbors! Follow along with a team of scientific divers as they explore the depths beneath the boat and introduce students to the animals below with a LIVE underwater video system. And most importantly, learn how your daily actions can help protect this magnificent, but delicate ecosystem that we all share.

Contact: fieldtrips@marinescienceafloat.org or 206-361-1919
Link: https://marine-science-afloat.myshopify.com/
Time: 5.5 hours
Cost: $40 per person for the first 15 people; plus one complimentary chaperone per every 10 additional students. (Scholarships available)
Transportation: Must provide own transportation.
Note: Fall season runs from Labor Day to mid-November. Spring season takes place from mid-March to mid-June.

*Program fieldtrips currently on hold. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Seattle Aquarium: Orca Discovery
What do you have in common with an orca? Discover the connections we share by comparing the life cycle and physical structure of orcas to humans while building a life-size whale skeleton. Instructors will lead students in a discussion of how our actions can negatively and positively affect these amazing animals. (Max class size 32).
Link: https://www.seattleaquarium.org/site-classroom-programs
Time: 60 minutes
Cost: $10 each (This is the price of aquarium admission for adults and youth 4 and up)
Transportation: Inquire at registration
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Seattle Aquarium: Puget Sound Plankton Discovery
Discover the most abundant organisms in Puget Sound: plankton! After conducting their own plankton tow, students will use microscopes to identify different types of plankton and learn about the role plankton plays in providing food for all as the base of the marine food web. (Max class size 32)
Link: https://www.seattleaquarium.org/site-classroom-programs
Time: 60 minutes
Cost: $10 each (This is the price of aquarium admission for adults and youth 4 and up)
Transportation: Inquire at registration
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Seattle Aquarium: Hands-on Tide Pool Discovery
Get up close and hands on with live tide pool animals. Through the use of puppets, live animals and discussion, students will learn about how these animals survive in their ever-changing habitat and how simple actions can help protect them.
Link: https://www.seattleaquarium.org/site-classroom-programs
Time: 60 minutes
Cost: $10 each (This is the price of aquarium admission for adults and youth 4 and up)
Transportation: Please contact.
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.
*Seattle Parks and Recreation: Camp Long*

Bringing science, environmental education, and experiential learning to your parks. Seattle Parks and Recreation’s Environmental Education and Outdoor Learning staff provide opportunities for grades K-12 and organized groups, such as scouts and camps, to experience age-appropriate, hands-on adventures in learning about natural communities in an urban setting. Programs align with WA State Essential Academic Learning Requirements for core content areas and support science kits.

- **Ponds (spring and summer only):** Experience the freshwater habitats of a city park at Camp Long or Discovery Park. Waddling ducks, wriggling tadpoles, and dancing dragonflies are some of the creatures they may see as they explore what makes these places so special.
- **Forest:** Camp Long and Discovery Park have lots of forest habitat to explore. Venture through the trees looking for clues to animal habits, hiding places, and seasonal happenings. Forest programs empower participants to feel comfortable in the outdoors.

*Link:* [https://www.seattle.gov/parks/find/centers/camp-long/camps](https://www.seattle.gov/parks/find/centers/camp-long/camps)

*Transportation:* Please contact.

*Not offering Nature Camps for the 2021 season, planning to reopen in 2022. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

*Sound Experience: Sound Studies Program*

The goal of a Sound Studies program, as with all programs offered by Sound Experience, can be summarized in a single word: awareness. They believe that people will protect what they learn to value. The most effective way to have a lasting impact is to meet the following goals for every program. Goals for participants: Leave with a heightened awareness of Puget Sound as a fragile ecosystem, understand the concept of a whole system, and understand how *Adventuress* and the earth both illustrate this concept.

- **Recognize the interrelationships that exist between all life.** Identify the positive and negative impacts that they as individuals have on the Puget Sound ecosystem.
- **Recognize their ability to take action by raising others’ awareness and by making responsible choices.** Understand the necessity of cooperation as a course to action.

Learn that Puget Sound is an incredible, diverse, and productive ecosystem and that the waterways we all share are fragile and need our care. Most importantly, students learn that they can make a difference. Experience working together to raise sails and learn about all the factors that help make a traditional sailing vessel function. When you join us for a day trip, your group will take part in an active learning and working voyage. On board our vessel, participants are able to experience how community, nature, culture, and infrastructure all interact and shape each other.

*Contact:* Amy Kovacs at amy@soundexp.org or 360-379-0438 ext. 2


*Time:* 3 or 5 hours
**Cost:** Off Peak Rates (October 1-April 30): $1150 for 3 hours, $1675 for 5 hours. Peak Rates (May 1-September 30): $1210 for 3 hours, $1760 for 5 hours; inquire about scholarship opportunities that may be available

**Transportation:** Please contact.

**Note:** The Adventuress sails out of many ports, including: Everett, Olympia, Seattle, and Tacoma.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

**Sound Experience: Sound Experience Program**

The goal of a Sound Studies program, as with all programs offered by Sound Experience, can be summarized in a single word: awareness. We believe that people will protect what they learn to value. The most effective way to have a lasting impact is to meet the following goals for every program. Our goals for participants: Leave with a heightened awareness of Puget Sound as a fragile ecosystem, understand the concept of a whole system, and understand how Adventuress and the earth both illustrate this concept; recognize the interrelationships that exist between all lives. Identify the positive and negative impacts that they as individuals have on the Puget Sound ecosystem. Recognize their ability to take action by raising others’ awareness and by making responsible choices. Understand the necessity of cooperation as a course to action; Learn that Puget Sound is an incredible, diverse, and productive ecosystem and that the waterways we all share are fragile and need our care. Most importantly, students learn that they can make a difference; Experience working together to raise sails and learn about all the factors that help make a traditional sailing vessel function. When you join us for a day trip, your group will take part in an active learning and working voyage. On board our vessel, participants are able to experience how community, nature, culture, and infrastructure all interact and shape each other.

**Contact:** Amy Kovacs at amy@soundexp.org and 360-379-0439

**Link:** [https://www.soundexp.org/sail-with-us/schools-youth-groups/](https://www.soundexp.org/sail-with-us/schools-youth-groups/)

**Time:** 2-7 days

**Cost:** Off Peak Rates (October 1- April 30): $2780 per day, groups between 14-18 people can come for $149/person/day and includes adults. Peak Rates (May 1-September 30): $2900 per day, groups between 14-18 people can come aboard for $159/person/day and includes adults

**Transportation:** Please contact.

**Note:** The Adventuress sails out of many ports, including: Everett, Olympia, Seattle, and Tacoma.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

**Sound Salmon Solutions: Macroinvertebrates**

Students identify and categorize aquatic benthic macroinvertebrates as a biological indicator of water quality.
Contact: [http://www.soundsalmonsolutions.org/contact-us](http://www.soundsalmonsolutions.org/contact-us)
Link: [http://www.soundsalmonsolutions.org/education-lessons](http://www.soundsalmonsolutions.org/education-lessons)
Time: 45-120 minutes
Cost: Varies depending on funding, contact for more information
Note: Can be done as an in-class lab.

Sound Salmon Solutions: Water Quality Testing
Students become scientists by collecting water samples and using testing kits to measure and collect data on the health of a local stream. They will understand the value of clean water and how that is defined.
Contact: [http://www.soundsalmonsolutions.org/contact-us](http://www.soundsalmonsolutions.org/contact-us)
Link: [http://www.soundsalmonsolutions.org/education-lessons](http://www.soundsalmonsolutions.org/education-lessons)
Time: 45-60 minutes
Cost: Varies, possibly free depending on funding, contact for more information

Sound Salmon Solutions: The 5 C’s of Salmon Habitat (Field Trip Add-On)
Students learn about the critical habitat components necessary for salmon survival! This lesson can be added on to any field trip.
Contact: [http://www.soundsalmonsolutions.org/contact-us](http://www.soundsalmonsolutions.org/contact-us)
Link: [http://www.soundsalmonsolutions.org/education-lessons](http://www.soundsalmonsolutions.org/education-lessons)
Time: 30 minutes
Cost: Varies, possibly free depending on funding, contact for more information

Projects

Nature Vision: Blue Teams
Nature Vision offers Blue Teams, a student stewardship project funded by our water sponsors. Blue Teams are groups of kindergarten-12th grade students who commit to taking on and completing a watershed stewardship project. Students complete projects such as invasive plant removal, native plant restoration, planting water-wise gardens, finding and fixing leaks, and much more.
The Blue Team program was developed to educate local youth about water resources and related ecosystems, foster sustainable stewardship values and practices in the community through hands-on youth projects, and to empower youth to take positive steps to improve their local environment.
Blue Teams receive Nature Vision’s help in planning, preparing for, and executing their projects at school or at an off-campus project site, as well as regular teacher consultations via phone or email. Teachers/Instructors may register their class or youth group to become a team, and Nature Vision staff will help each team to design a watershed stewardship project. Staff will visit the students multiple times to teach inquiry-based programs, giving the students the knowledge and help they will need to successfully complete and understand the value of their project.
Link: https://naturevision.org/blue-teams
Time: Variable
Cost: Free Blue Teams may be available, please email info@naturevision.org for more information.
Transportation: Must provide own transportation.
Note: Blue Teams now have virtual options.

Nature Vision: Community Science
Community science is a process by which members of the public can participate in important scientific research. Under the guidance of a Nature Vision educator, students will work as scientists and help record data on the health of their local waterways. Students start their programs with a brief introduction to community science and the scientific method, before learning and practicing how to collect valuable data on water quality. Using these new skills, they can then investigate a local body of water and analyze real-world data in order to help local scientists monitor the health of their watershed.
These programs can be arranged either as a stand-alone series of classes, or as a part of a longer Blue Team module. We encourage teachers to schedule the programs at regular intervals each year in order to collect a body of data that can be referenced by each new class. Every year students may add their findings to the classes that came before them, providing an even better sense of the health of their local waterways over time.
Link: https://naturevision.org/community-science
Contact: info@naturevision.org
Time: Variable
Cost: Free for most schools. Inquire about free programs with info@naturevision.org
Transportation: Must provide own transportation.
Note: Community Science is now virtual, inquire about options for virtual programs. Nature Vision also offers in-class and virtual lessons and field trips.

Sound Salmon Solutions: Tree Planting
Students are given an opportunity to plant native trees and shrubs on an active habitat restoration site.
Contact: http://www.soundsalmonsolutions.org/contact-us
Link: http://www.soundsalmonsolutions.org/education-lessons
Time: 60-90 minutes
Cost: Varies, possibly free depending on funding, contact for more information

City of Burien: StormFest Toolkit
Polluted stormwater runoff is the number one threat to the water quality of the Puget Sound. The purpose of the StormFest Toolkit and curricula is to develop and promote an understanding of the serious issues facing our community from stormwater runoff through a hands-on experience. The curricula meets Next Generation Science Standards
(NGSS) and Common Core science standards and was developed to serve a highly diverse school district, intentionally designed as an equitable education opportunity for all students regardless of race, ethnicity, or English language learning status. The toolkit details how districts or teachers can adapt and host StormFest to serve your own community. Curriculum can be modified for grades 4th through 8th, and education materials are provided in both English and Spanish.

Link: https://www.pugetsoundstartshere.org/Resources.aspx
Contact: Paige Morris at Paigem@burienwa.gov or 206-248-5511
Time: Variable
Cost: No Cost
5th Grade

Remote Learning

These are remote learning options for classrooms or home learning.

King County DNRP: Water Education Series

When It Rains, It Pours Virtual Series (aimed at grades 3-5): This 3-session series of lessons will build students’ understanding of the interactions that stormwater has with the ecosystems and communities they inhabit. Synchronous or video-taped sessions led by educators are designed for students and families to engage in activities they can do at home.

Wastewater Engineers Virtual Series (aimed at grades 3-6): This 4-session series of lessons will teach students how wastewater is cleaned, and how their daily choices have a direct impact on the water cycle. Sessions are designed for students to use the engineering design process while they “visit” a wastewater treatment plant, carry out investigations, and learn how to become stewards of their water system. Lessons can be synchronous or are offered as video-taped lessons.

Contact: Katelyn.Leeuw@kingcounty.gov
Link: https://kingcounty.gov/services/environment/wastewater/education/school.aspx
Time: 60 minute sessions
Cost: No cost

Burke Museum Virtual Education Programs: Virtual Field Trips

Web-based, virtual tours of the museum. Designed to support classroom curriculum, our Virtual Field Trips are interactive, self-paced experiences. All you need is an internet connection and web browser to get started.

Link: https://www.burkemuseum.org/education/educators-and-schools/virtual-education-programs
Time: 30 minutes
Cost: $40; cost assistance is available for qualifying schools, organizations, and groups.

Burke Museum Virtual Education Programs: Burke LIVE

Have a Burke educator join your class live from our learning studio. Each program includes an interactive discussion or activity related to the topic, a closer look at real Burke collections and a chance for Q&A! You’ll also receive pre- and post-program materials to help prepare your students for the live experience and extend their learning afterwards.

Link: https://www.burkemuseum.org/education/educators-and-schools/virtual-education-programs
Time: 45 minutes
Cost: $90, Cost assistance is available for qualifying schools, organizations, and groups.
Friends of the Issaquah Salmon Hatchery (FISH): Forest & Fins Online Learning
This online video series covers a variety of topics from elements of healthy salmon streams to the relationship between salmon and the forest ecosystem. Videos are broken into 8 lessons, some with downloadable worksheets as well.
Contact: education@issaquahfish.org or 425-393-1118
Link: https://www.issaquahfish.org/educational-video-series/
Time: Varies
Cost: No cost
Note: FISH also offers field trips. https://www.issaquahfish.org/teachers-school-programs/#presentation-form

Mountain to Sound Greenway Trust: Virtual Education
Mountain to Sound Greenway Trust has a virtual education series of videos and activities to do at home. Topics include: Forest and Fins, Next Generation Stewards, Salmon SEEson, Kokanee Salmon, and alternative ideas to explore nature while staying close to home.
Link: https://mtsgreenway.org/get-involved/education/virtual-education/
Cost: No cost

Nature Vision: Student Packets
Nature Vision has developed seven science packets for K-12 students: Ecological Impacts, Water Quality, Human Systems, Invasive Plants, Ecosystems, Watersheds, and Humans and Water. Each free downloadable packet includes the following:
Contact: info@naturevision.org
Link: https://naturevision.org/student-packets
Cost: No cost

Nature Vision: Remote Learning and Video Call Programs
Nature Vision has adapted many of our most popular in-class programs into two virtual formats for increased accessibility! We now offer synchronous full-length video call programs and asynchronous remote curriculum program options for teachers, parents, and caregivers to use during the upcoming school year. These programs are designed to accommodate both fully remote and hybrid teaching options for each school district Nature Vision serves. The programs are flexible to best fit teachers’ schedules, student needs, and current WA State K-12 Learning Standards with STEM education as a central focus. Each full-length video call program is 45-60 minutes live with one of our educators. Each remote learning program includes videos of our engaging Nature Vision Educators, detailed instructions for teachers/parents/caregivers to lead interactive activities, and a live Q&A session with an educator.
Link: https://naturevision.org/remote-learning-programs
Time: Roughly 1 hour between videos, activities, and Q&A sessions
King County Stormwater Elementary Education Resource Guide

Cost: Free for most schools. Otherwise $85-$90
Note: Free programs are available to most schools, please email info@naturevision.org for more information. Nature Vision also offers classroom programs, field trips, and projects.

Seattle Aquarium: Digital Learning Opportunities
All of our programs focus on the marine ecosystems of the Pacific Northwest. Our educators will guide you and up to 32 of your students over video conferencing software through lessons that support Next Generation Science Standards while giving your students agency to influence the class based on their prior knowledge and interests. Each of our classes has a grade level range, and within that range our skilled educators will tailor the class for your specific grade level. Many classes also include special live animal interactions with the tide pool creatures in our care.
Link: https://www.seattleaquarium.org/distance-learning
Time: 45 minutes
Cost: $150, Scholarships available for those eligible.

Pacific Marine Research: Marine Science Remote
Book our series of 3 one hour live sessions and join our naturalists as they guide you through Plankton Lab, our Live Dive and an Invertebrate Food Chains Lesson or a more advanced Invertebrate Taxonomy with live critters. Meet our divers and ask them questions in real time as they take you underwater during the Live Dive. We will also include Water Quality Data collected on the day of this live portion. The live stream will allow for students to ask questions and interact with naturalists and scuba divers in real-time.
Contact: fieldtrips@marinescienceafloat.org or 206-361-1919
Link: https://www.pacificmarineresearch.org/pages/marine-science-remote/
Time: Three 1 hour sessions
Cost: $250, scholarships available

Classroom Visitors
These programs are taught by an informal educator from various organizations in your classroom.

King County DNRP: Water Education
Clean Water Challenge (grades 4-5): This is a 90-minute program led by King County and Islandwood staff inside your school. The lesson is Next Generation Science Standards (NGSS) aligned and focuses on our local wastewater system. In this lesson students will investigate how we impact the water in our communities, discover what we are doing to clean it up and what actions we can take to keep our water clean. Students will use the engineering design process to explore the impacts that humans have on our water.
system and will learn how the choices they make on a daily basis impact our water system.

Stormwater in your Schoolyard (grades 3-5): This is a 90-minute program led by IslandWood and King County staff outside in your school yard. The lesson is Next Generation Science Standards (NGSS) aligned and site specific, building upon students' prior experiences and understanding of their schoolyard. Students will investigate how stormwater moves through their school yard, identify stormwater problems, and collaborate with their peers to design solutions. This lesson introduces students to concepts related to stormwater, the engineering solutions that were put in place at their school, the engineering design process and using scientific practices and skills in the student’s home community. Students identify areas in their schoolyard where they see or have seen stormwater issues, research those areas, and then use this knowledge to begin the process of developing a potential solution.

Contact: Katelyn.Leeuw@kingcounty.gov
Link: https://kingcounty.gov/services/environment/wastewater/education/school.aspx
Cost: No cost

King County: Noxious Weeds
The King County Noxious Weed Control Program can provide presentations and other programs upon request for teachers and students of all levels customized to their curriculum needs. Contact the program for more information or to set up a presentation or field trip.

Contact: noxious.weeds@kingcounty.gov
Time: Variable
Cost: No Cost
Note: This program can be a presentation or field trip. King County also offers teacher resources and projects.

City of Duvall: Surface Water Management Classroom Visitor
Larissa Polanco, Assistant City Engineer. Discussion adapted to what you are teaching in the classroom.

Contact: Larissa Polanco at larissa.polanco@duvallwa.gov and 425-788-3434 ext. 8040
Link: http://www.duvallwa.gov/305/sewer-water-stormwater/
Time: Variable
Cost: No Cost

City of Newcastle: Surface Water Management Classroom Visitor
The Surface Water Program Manager can speak to your class about surface water management, with an emphasis on what you are currently talking about in the classroom.

King County Stormwater Elementary Education Resource Guide
Created April 2017 – Updated November 2021
Contact: Audrie Starsy at audries@newcastlewa.gov or 425-649-4444 ext. 111
Link: http://newcastlewa.gov/departments/public_works/surface_water_management/
Time: Variable
Cost: No Cost

Eastside Audubon: Classroom Workshops
These workshops teach K-12 students what makes a bird a bird and how to identify common birds seen in our area. Each workshop is on a different topic and has specific activities included. Workshop topics include: Introduction to Birds, Bird Identification, Using Binoculars, Bird Beaks and Food, and more!
Contact: youthprograms@eastsideaudubon.org
Link: https://www.eastsideaudubon.org/youth-education
Time: Depends on workshop topic
Cost: No cost
Note: Can be adapted by the volunteer to address stormwater runoff effects specifically. Programs are offered in communities from Bellevue to Woodinville/Bothell and from East Lake Washington to North Bend.

*Environmental Science Center: Salmon Heroes
The Salmon Heroes program introduces 4th-12th grade students to salmon habitat needs and stormwater pollution solutions in the Puget Sound watershed. Classroom Lessons & Field Study Investigation: During the 1-hour pre-field study classroom lesson, students will engage in hands-on, Next Generation Science Standards-correlated activities that explore the habitat needs of salmon – as well as the challenges to survival that salmon face – during each stage of the salmon life cycle. During the 3-hour field study, students review the salmon life cycle, learn external and internal anatomy, collect water quality data, learn about the changes that the local community can make to their behaviors in order to make the watershed a better habitat for salmon, and then play a large-group game that mimics the challenges salmon face in making it back to their spawning grounds. During the 1-hour post-visit classroom lesson, students analyze the water quality data they collected in the field and compare it to previous year’s data, and to data collected from a different local creek. Students will then evaluate different actions that people can take in order to lessen their impact on salmon population health.
Contact: programs@environmentsciencecenter.org or 206-248-4266
Link: https://envsciencecenter.org/salmon-heroes/
Time: 2 hours (in classroom) + 3 hours (field trip to Normandy Park Cove)
Cost: Schools with more than 75% of students qualifying for Free or Reduced Priced Meals (FRPM) - No Charge; Schools with 45-75% students qualifying for FRPM - $50 per class of 30 students; Schools with less than 45% of students qualifying for FRPM - $350 per class of 30 students
Transportation: Partial transportation reimbursements are available for schools where more than 45% of students qualify for FRPM
**Note:** Offered September-December. In-person and virtual program offerings available in 2021.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

Friends of the Issaquah Salmon Hatchery (FISH): Those Amazing Salmon
This popular presentation consists of a 45- to 60-minute slide show, discussion, and question-and-answer session. After the slide show, teachers have the option of a watershed activity, quiz game, or Native American legend activity for their class.

**Contact:** education@issaquahfish.org or 425-393-1118

**Link:** www.issaquahfish.org/teachers-school-programs/

**Time:** 45-80 minutes

**Cost:** $50 per class request in King County, $75 request out of King County

*Note:* Will still accept schools that cannot afford the fees. Ideally, a class receives the presentation prior to a visit to the hatchery. The program is available year round. FISH also offers field trips.

Friends of the Issaquah Salmon Hatchery (FISH): Enviroscape - a Watershed Model
Using a table-top watershed model, students “pollute” the land, make it “rain,” and watch how pollution can affect the watershed. They then come up with solutions to pollution problems and identify things they can do to keep our watersheds (and salmon!) healthy.

**Contact:** education@issaquahfish.org or 425-393-1118

**Link:** www.issaquahfish.org/teachers-school-programs/

**Time:** 60 minutes

**Cost:** $50 per class requested

*Note:* Offered November-June. FISH also offers field trips.

Nature Vision: Watershed Programs
A Nature Vision educator will visit your classroom to facilitate hands-on lessons that highlight the challenges our local watershed faces with stormwater runoff. Each hour-long lesson focuses on specific concepts related to stormwater. Lessons can stand alone or be combined into units that offer a more complete picture of stormwater. Units can be for one grade level or used to scaffold throughout multiple grade levels at a school. Every lesson is designed to support WA State K-12 Learning Standards and help students understand what they can do to reduce the effects of stormwater runoff.

**Link:** https://naturevision.org/school-programs/

**Time:** 45-60 minutes

**Cost:** Free for most schools. Otherwise $110 per in-person lesson, $85-90 for remote

*Note:* Free programs are available to most schools, please email info@naturevision.org for more information. Nature Vision also offers field trips and projects. Nature Vision can also provide classroom programs virtually over video call at 45-60 minutes.
*Salish Sea Expeditions: SOURCE Program

Salish Sea Expeditions invites students to become scientists, facilitating student-led research and applied STEM (Science Technology Engineering and Math) skill development that focuses on the health of Puget Sound and its connected waterways. This land-based program is focused on supporting students in investigation of their local watershed, building awareness about water quality and stormwater issues in the Puget Sound region. Salish staff visit school campuses, leading classroom-based activities and instruction, and water quality sampling and analysis on school grounds to help students learn how human activity can impact the health of the Puget Sound ecosystem.

Contact: educationdirector@salish.org or 206-780-7848
Link: https://www.salish.org/programs/source/
Time: 10 hours total (multiple classes)
Cost: $1200/initial classroom (additional classes $250 each) - email for complete pricing and scheduling options. Scholarship opportunities are often available.

Note: Offered October-February. Class size up to 30 students. Salish Sea Expeditions also offers single and multi-day boat-based field trips.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Sound Salmon Solutions: Hooks and Ladders

Students become spawning salmon in this fun, interactive game that teaches students about all of the obstacles salmon face throughout their life cycle.

Contact: http://www.soundsalmonsolutions.org/contact-us
Link: http://www.soundsalmonsolutions.org/education-lessons
Time: 45 minutes
Cost: Varies depending on funding, contact for more information
Note: Can be done as a field trip

Sound Salmon Solutions: Macroinvertebrates (Lab option)

Students identify and categorize aquatic benthic macroinvertebrates as a biological indicator of water quality.

Contact: http://www.soundsalmonsolutions.org/contact-us
Link: http://www.soundsalmonsolutions.org/education-lessons
Time: 45-120 minutes
Cost: Varies depending on funding, contact for more information
Note: Can be done as a field trip

Sound Salmon Solutions: Erosion Modeling

Students will understand the scientific method by conducting an investigation that explores the factors that increase or decrease erosion using a model they build.

Contact: http://www.soundsalmonsolutions.org/contact-us
Link: http://www.soundsalmonsolutions.org/education-lessons
Time: 120 minutes
**Cost:** Varies, possibly free depending on funding, contact for more information
**Note:** Can be done as a field trip

Vashon Nature Center: Nature Presentations
Trained scientists and naturalists offer in-class and outdoor programs designed to foster student awareness and understanding of environmental science topics relevant to their community and tied to global issues. Programs are tailored to suit teachers' classroom teaching goals and align with Next Generation Science Standards.
**Contact:** info@vashonnaturecenter.org or 206-755-5798
**Time:** 30-90 minutes
**Cost:** $50-$150
**Note:** Areas of focus address the natural history of the Salish Sea and Pacific Northwest. Examples include: watershed education, stormwater management, phenology, freshwater macroinvertebrates, salmon, amphibians, intertidal studies, forage fish, shoreline restoration, biodiversity studies, and methods in field research.

Field Trips

**King County DNRP: Water Education: Brightwater Center and South Plant Field Trips**
King County and IslandWood educators provide water educational field trips for students in grades 3-8 located at both Brightwater and South Treatment Plant. Field trips can accommodate up to 60 students per day, last 3-4 hours, and are free of charge. Teachers can choose from programs that focus on stormwater, wastewater and water ecosystems.
**Contact:** KatelynLeeuw@kingcounty.gov
**Link:** [https://kingcounty.gov/services/environment/wastewater/education/school.aspx](https://kingcounty.gov/services/environment/wastewater/education/school.aspx)
**Time:** 3-4 hours
**Cost:** No Cost
**Transportation:** Qualifying schools can access free bus transportation through the Wheels to Water transportation program

*Fieldtrips on hold during 2021 season, but are planning to reopen in 2022. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

**King County: Salmon SEEson**
During the fall, salmon return to streams and rivers around the Puget Sound. Spot the spawners in the Lake Washington/Cedar/Sammamish and Green/Duwamish and Central Puget Sound watersheds from September to mid-December. Salmon SEEson provides information to help you spy these natural beauties at various times and locations as they make their seasonal journey home each year. Many locations have staff or volunteer naturalists on hand to point out salmon; some are self-guided locations.
Contact: Laura West at lwest@kingcounty.gov or 206-477-7574
Time: 15-60 minutes
Cost: No Cost
Transportation: Qualifying schools can access free bus transportation through the Wheels to Water program

**Note:** Flyers, poster, and a website are available to help you find the best time and location for you and your class to see spawning salmon. King County also offers teacher resources, in-class lessons, and projects.

*Camp Auburn*
Camp Auburn provides an overnight opportunity for students to learn many useful things about their environment, make new friends, deepen current friendships, and learn to live as members of a large group. It is the sincere desire of the Auburn School District administration that your fifth grade student have many positive experiences as a result of the Camp Auburn program.

Contact: Steve Christiansen at schristiansen@auburn.wednet.edu
Link: [https://www.auburn.wednet.edu/campauburn](https://www.auburn.wednet.edu/campauburn)
Transportation: Please contact.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

**Camp Fire Seattle: Camp Sealth**
Encompassing 400 incredible acres including an extensive trail system, a private beach and numerous diverse ecosystems, Camp Sealth is the perfect venue for experiential education. Camp Fire was established with a strong foundation in providing positive outdoor experiences for youth and it is fundamental to their mission, core values, and programs. We believe in the power of nature to awaken a child’s senses, curiosity, and desire to learn. With a completely inquiry-based program, our students are taught to study and evaluate the natural world. Through hands-on learning, they develop a deeper understanding of the scientific method and we hope – a curiosity and love for the environment. Camp Sealth serves grades K-12 for our Outdoor Education, Retreats, and Day Programs and can create customizable schedules that meet current educational standards by grade level.

Contact: Josh Cunningham at joshc@campfireseattle.org
Link: [https://campfireseattle.org/outdoor-education/](https://campfireseattle.org/outdoor-education/)
Time: Program offered September-June. Typical program is 3 days, 2 nights. Can do both 1 night and week-long programs as well.
Cost: $56 per student per night, $48 per adult per night
Transportation: [https://campfireseattle.org/camp-sealth-overnight-camp/all-about-camp-sealth/transportation/](https://campfireseattle.org/camp-sealth-overnight-camp/all-about-camp-sealth/transportation/)

**Note:** In addition to the Outdoor Education program, Camp Sealth and Camp Fire Central Puget Sound offers rentals of our site for other non-profit groups, over ten
community based day camps in various locations in King County during the summer months, summer resident camp at our Camp Sealth site, and community based group programing at various locations in King County. For more information about these programs please contact Michael McGrath at the Seattle office at michaelm@campfireseattle.org.

*Cedar River Watershed Center: Seeing the Source
This field trip journeys to the heart of the Cedar River Municipal Watershed. Naturalist-led, hands-on activities encourage understanding of water cycles, watersheds, water quality, erosion, cultural history, riparian areas, and wildlife. Students See-the-Source of their mountain-fed drinking water supply, plus discover the importance of protecting and conserving it for fish and people.
Contact: crwprograms@seattle.gov
Time: 3 ½ hours
Cost: No Cost
Transportation: Please contact.
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Cedar River Watershed Center: Land and Water
This field trip explores features and highlights of the award winning Education Center and its surroundings. Students participate in naturalist-led, hands-on activities that help students make the connections between land, water, and people. Students experience the Water is Magic exhibits and travel through the water cycle, listening to stories of the past and present while learning about their mountain fed drinking water source. They will also walk the shores of Rattlesnake Lake with water testing kits and return to the learning labs to closely examine the natural world with high quality microscopes.
Contact: crwprograms@seattle.gov
Time: 3 ½ hours
Cost: No Cost
Transportation: Please contact.
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Environmental Science Center: Salmon Heroes
The Salmon Heroes program introduces 4th-12th grade students to salmon habitat needs and stormwater pollution solutions in the Puget Sound watershed. Classroom Lessons & Field Study Investigation: During the 1-hour pre-field study classroom lesson, students will engage in hands-on, Next Generation Science Standards-correlated activities that explore the habitat needs of salmon – as well as the challenges to survival that salmon face – during each stage of the salmon life cycle. During the 3-hour field study, students review the salmon life cycle, learn external and internal anatomy, collect water quality data, learn about the changes that the local community can make to their
behaviors in order to make the watershed a better habitat for salmon, and then play a
large-group game that mimics the challenges salmon face in making it back to their
spawning grounds. During the 1-hour post-visit classroom lesson, students analyze the
water quality data they collected in the field and compare it to previous year’s data, and
to data collected from a different local creek. Students will then evaluate different
actions that people can take in order to lessen their impact on salmon population
health.

**Contact:** programs@environmentalsciencecenter.org or 206-248-4266

**Link:** https://envsciencecenter.org/salmon-heroes/

**Time:** 2 hours (in classroom) + 3 hours (field trip to Normandy Park Cove)

**Cost:** Schools with more than 75% of students qualifying for Free or Reduced Priced
Meals (FRPM) - No Charge; Schools with 45-75% students qualifying for FRPM - $50 per
class of 30 students; Schools with less than 45% of students qualifying for FRPM - $350
per class of 30 students

**Transportation:** Partial transportation reimbursements are available for schools where
more than 45% of students qualify for FRPM

**Note:** Offered September-December. In-person and virtual program offerings available
in 2021.

*Please check the website for the most up-to-date information regarding closures or
modifications due to COVID-19.*

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**Friends of the Issaquah Salmon Hatchery (FISH): Those Amazing Salmon - Hatchery Tours**

Come see the salmon at Issaquah Creek! Watch spawning salmon, see the hatchery in
action, and learn about challenges salmon face and what we can do to help them.
Scheduled groups of students and adults are led through the hatchery by trained
volunteer docents.

**Contact:** education@issaquahfish.org or 425-392-1118

**Link:** https://www.issaquahfish.org/2021-guided-tours/

**Time:** Tours last 45 minutes to one hour and are available primarily mid-September
though early November

**Cost:** FISH requests a fee of $2 per student when possible.

**Transportation:** Please contact.

**Note:** The tour, ideally in conjunction with the Those Amazing Salmon classroom
presentation, helps fulfill the state mandate to provide environmental education
experiences to students and is aligned to Washington State standards in science and
social studies.

*Hatchery grounds are currently closed to the public. Guided tours are permitted with
a reservation. Please check the website for the most up-to-date information regarding
closures or modifications due to COVID-19.*

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**Friends of Soos Creek (Kent): Interpretive Walk**

Friends of Soos Creek Park is a non-profit organization comprised of volunteer members
who take a pro-active role in preserving and extending the Soos Creek Trail Park and who sponsor and lead park clean-ups and interpretive walks for public education about the importance of wetlands and undisturbed nature. Soos Creek Park is one of south King County's prized wetland habitats. An 8.5 mile trail follows the creek through cattail marshes, forested swamps, wet meadows and willow thickets. This trail is suited to all levels of fitness and is wheelchair accessible. Take any or all of the interpretive walks to learn more about this fascinating area and its wildlife residents. Volunteers from The Friends of Soos Creek Park lead these interpretive walks.

Contact: Kent Parks and Recreation: 253-856-5000 or Covington Parks and Recreation: 253-480-2480

Link: https://www.facebook.com/FriendsOfSoosCreekPark/

Time: Variable

Transportation: Please contact for details

Note: All of the walks take place outdoors, so be sure to dress for the weather

*IslandWood: Student Overnight Program (SOP)*

IslandWood’s four-day three night School Overnight Program immerses students and teachers in a naturally diverse 255-acre outdoor campus located on Bainbridge Island (just across Puget Sound from downtown Seattle). The curriculum, faculty, and staff support schools and teachers to raise achievement levels for all students by using the environment as a catalyst for learning. Through learning adventures at IslandWood, students gain a greater understanding of the: ecological concepts and practices, including ecosystems, investigations, habitats, adaptations, and biodiversity; the joys of exploration, discovery, and wonder; the interconnectedness of natural and cultural communities; how each person can contribute to natural and cultural communities; and the benefits of working together cooperatively.

Contact: Joan Hutchinson at joanh@islandwood.org and 206-855-4305.

Link: https://islandwood.org/educational-programming/school-overnight-program

Time: 4 days

Cost: $315 per student. One teacher per 25 attending students is free, all others pay the chaperone fee ($210 per chaperone). Tuition for 3-day programs (offered during holiday weeks only): $250 per students and $170 per chaperone. Scholarship funds available to help public schools that meet scholarship criteria. Tuition includes lodging, meals, curriculum, instructors, and evening programs. Pre and post-classroom visits to your school and professional development opportunities for your teachers are also included in the price.

Transportation: Please contact.

Note: Topics during SOP can be customized.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Mercer Slough Environmental Education Center: Wetland Naturalists*
Lab: Students learn what wetlands are and why they are an important ecosystem to protect. With enough time, groups collect their own water samples from the nearby pond to bring back to the classroom. Students then search through the samples to collect Aquatic Macroinvertebrates. Using a video microscope to look closer at each Macro, students record their observations for sharing just like real naturalists.
Hike: The hike shows students how naturalists use plants, soils, and hydrology to do a wetland delineation to better protect the important ecosystem. Students practice their observation skills by using a guided scavenger hunt. With enough time, they learn the challenges of being a migrating bird while playing our Wetland Migration game.

Contact: Elley Vanderline at evanderline@pacificsci.org or 425-450-0207
Link: https://www.pacificsciencecenter.org/mercer-slough/teachers-school-groups/
Time: 4 hours, including a 30-minute lunch
Cost: $210 for up to 16 students, $358 for 17-32 students.
Financial assistance and a sliding scale pricing model are available. Email edprograms@pacificsci.org to find out if your school qualifies.
Transportation: Please contact.
Note: Programs require a ratio of one chaperone per 16 students. Adults are free of charge. Limited financial assistance is available for qualifying schools!
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Mercer Slough Environmental Education Center: Ecosystem Explorers
Lab: Students start their lab experience with a hands on activity to help them understand the relationships between biotic and abiotic factors in an ecosystem. Having this knowledge, they complete population counts of producers, consumers and decomposers in a pond ecosystem before studying their samples on a video microscope for closer investigation.
Hike: On the hike, students continue their exploration of producer, consumer and decomposer population counts in the wetland and forest ecosystems. These results then guide a discussion of energy flow in ecosystem on a broader level. If there is enough time, students play a game that demonstrates how important decomposers are for the energy flow of an ecosystem.

Contact: Elley Vanderline at evanderline@pacificsci.org or 425-450-0207
Link: https://www.pacificsciencecenter.org/mercer-slough/teachers-school-groups/
Time: 4 hours, including a 30 min lunch
Cost: $210 for up to 16 students, $385 for 17-32 students.
Financial assistance and a sliding scale pricing model are available. Email edprograms@pacificsci.org to find out if your school qualifies.
Transportation: Please contact.
Note: Programs require a ratio of one chaperone per 16 students. Adults are free of charge. Limited financial assistance is available for qualifying schools!
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.
*Mercer Slough Environmental Education Center: Environmental Engineers
Lab: Students learn about the engineering design process before being presented with their biggest environmental engineering challenge of the day. Students then need to do research on past designs and test their own designs in our stream tables to engineer the best city-plan along the edge of a river. Along the way, your students might encounter unforeseen events and angry stakeholders that could make them reconsider their design before submitting their final model for approval.
Hike: Students learn more about Green Stormwater Infrastructure by exploring our LEED Gold Facilities onsite. In the nature park, they get hands-on experience with wetland delineation to decide if a proposed site is good for building on. With their new background knowledge, students then practice building their own Environmental Education Center out of natural materials along the trail. If there is enough time, students can to run around and play an engineering game of tag.

Contact: Elley Vanderline at evanderline@pacsci.org or 425-450-0207
Link: https://www.pacificsciencecenter.org/mercer-slough/teachers-school-groups/
Time: 4 hours, including a 30 min lunch
Cost: $210 for up to 16 students, $385 for 17-32 students. Financial assistance and a sliding scale pricing model are available. Email edprograms@pacsci.org to find out if your school qualifies.

Transportation: Please contact.

Note: Programs require a ratio of one chaperone per 16 students. Adults are free of charge. Limited financial assistance is available for qualifying schools!
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

Mount Rainier Institute: School Overnight Programs
In partnership with Mount Rainier National Park, University of Washington created the Mount Rainier Institute. Located at Pack Forest, Mount Rainier Institute is a residential environmental learning center that uses the natural and cultural resources of Mount Rainier National Park and Pack Forest to achieve its mission. MRI students spend up to five days in direct contact with the ecology of the Pacific Northwest. The curriculum integrates science, math, and social studies in a cooperative learning environment which illustrates the many benefits Washington’s natural areas provide. Students discover the inspirational and recreational benefits of forests, learn about important renewable resources, and explore ecological benefits, such as wildlife habitat, erosion control, and carbon storage. The curriculum goals are: 1) to improve students’ scientific literacy, and inspire an interest in environmental science fields; 2) to help students understand their role as resource stewards of the Mount Rainier region and their home community; 3) to provide students with an understanding and appreciation for public lands; 4) to develop students’ connection to nature; 5) to foster a sense of community among students through shared outdoor experiences.

Contact: 253-692-4161
Cost: Tuition for School Overnight Programs range from $130-$400 per student. Mount Rainier Institute serves all schools: public, private, and home school groups. Scholarships are provided based on need. Mount Rainier Institute, the National Park Service, and their partners are committed to subsidizing cost to ensure students from all backgrounds have the opportunity to participate.

Note: One teacher per 30 students is free. Additional chaperones are charged a reduced fee.

Mount Rainier Institute: FieldSCOPES Day Programs

After months of on-line distance education, the need for hands-on, experiential learning is greater than ever. Mount Rainier Institute (MRI) is now offering FieldSCOPES, a series of day-long field experiences and outreach programs, starting in the fall. Our goal is to continue to partner with schools to provide experiences that enhance curriculum, enrich science, and build community. We will work directly with schools to accommodate needs and provide safe and innovative solutions to school re-opening plans. FieldSCOPES programs are designed to provide students with a hands-on education experience in a safe outdoor classroom. FieldSCOPES has options for every grade level. FieldSCOPES also includes Outreach programs where Mount Rainier Institute instructors come to your school.

Contact: John Hayes, Mount Rainier Institute Director, at jhayes90@uw.edu or 253-692-4161.

Cost: Costs range from $20 per person. Mount Rainier Institute, the National Park Service and our partners are committed to providing scholarships to ensure students from all backgrounds have the opportunity to participate.

Link: http://www.rainierinstitute.org/fieldscopes-day-programs.html

*Mountains to Sound Greenway Trust: Earth Underfoot

Inspects the impact of invasive plants on the landscape. Students identify native and invasive plants found in Pacific Northwest forests in preparation for a stewardship event. At the stewardship event students may remove invasive plant species, plant native and shrubs, or work in our native plant nursery.

Contact: Becca Kedenburg at becca.kedenburg@mtsgreenway.org

Link: www.mtsgreenway.org/education

Time: Variable

Transportation: King County Metro provides a limited number of Wheels to Water buses to transport students on their field trip.

Note: Each curriculum includes an introductory lesson (taught by the classroom teacher), an in-class lesson, a field study trip to a nearby forest, and an optional stewardship event. Depending on the season, a stewardship event might involve removing blackberry, planting native trees and shrubs, or working in our native plant nursery. Eligible schools have a free and reduced lunch percentage of at least 25 percent. Financial assistance is available for a limited number of buses to the stewardship event.
*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Mountains to Sound Greenway Trust: Forests and Fins*

Forest and fins focuses on stream/forest ecology and the life cycle of salmon. Students complete a mock stream survey in the classroom in preparation to do a real stream survey on the field study trip. Participants analyze the riparian zone, look for macro-invertebrates, test water quality, and evaluate the stream channel. Teams of students present their results.

**Contact**: Becca Kedenburg at becca.kedenburg@mtsgreenway.org

**Link**: www.mtsgreenway.org/education

**Time**: Variable

**Cost**: No Cost

**Transportation**: King County Metro provides a limited number of Wheels to Water buses to transport students on their field trip.

**Note**: Each curriculum includes an introductory lesson (taught by the classroom teacher), an in-class lesson, a field study trip to a nearby forest, and an optional stewardship event. Depending on the season, a stewardship event might involve removing blackberry, planting native trees and shrubs, or working in our native plant nursery. Eligible schools have a free and reduced lunch percentage of at least 25 percent. Financial assistance is available for a limited number of buses to the stewardship event.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Nature Bridge: Environmental Science Program*

NatureBridge environmental science programs in Olympic National Park offer students in grades K-12 the opportunity to learn hands-on science in an International Biosphere Reserve. The three to five-day residential outdoor science programs are led by experienced educators and customized to enhance your school’s curriculum. A classroom without walls: located on the shore of glacially carved Lake Crescent, students can investigate old growth forests, wilderness coasts, and alpine peaks.

**Inquiry-based learning**: motivated by their own curiosity, students monitor the dynamic Elwha River system, collect and identify macroinvertebrates in Barnes Creek, and study the adaptations of local mammals in the skins and skulls lab. Responsible actions: students are inspired to make informed decisions about what constitutes a healthy relationship between natural and human communities, their role in that relationship and appropriate actions they can take to sustain it.

**Request Information**: olympicreservations@naturebridge.org or 206-382-6212

**Link**: https://naturebridge.org/olympic/school-group

**Time**: 3-5 days
**Cost:** Price range for programs can be found here: [https://naturebridge.org/programs/olympic-school-environmental-science#rates-and-availability](https://naturebridge.org/programs/olympic-school-environmental-science#rates-and-availability)

Rates vary based on time of year. For the standard season (March-August) 3 days/2 nights starts at $298 per student. For off-peak season (February-March) 3 days/2 nights starts at $267 per student. Need-based scholarships available and additional optional services available. Tuition includes quality customized environmental science education; on-site lodging in heated, dormitory cabins on the shores of Lake Crescent; and home-style all-you-can-eat buffet meals.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

**Nature Vision: Stream and Wetland Connections**
These are 2-part programs. Stream Connections: a Nature Vision educator will lead an in-class discussion and field trip at your local stream while facilitating a variety of activities related to salmon and the effects of stormwater. Wetland Connections: a Nature Vision educator will lead an in-class discussion and field trip at your local wetland, retention pond, or location of your choice to facilitate activities that show the importance of these unique ecosystems in helping manage the effects of stormwater runoff. All activities support WA State K-12 Learning Standards and are customized to the watershed in which the stream or wetland is located. This allows students to make connections to their local environment and learn how they can become stewards where it matters to them most.

**Link:** [https://naturevision.org/school-programs/](https://naturevision.org/school-programs/)

**Time:** 1-2 hours

**Cost:** $220 per 2 part program. May also register for one part for $110.

**Transportation:** Must provide own transportation.

**Note:** Free programs may be available, please email [info@naturevision.org](mailto:info@naturevision.org) for more information. Nature Vision also offers in-class lessons and projects.

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*Pacific Marine Research: Marine Science Afloat*
Students learn to love and appreciate Puget Sound on our scientific expedition aboard the *Spirit of 76* floating classroom. Haul in the plankton nets! Spy into the invisible watery world in the microscope lab! Meet your slimy and squishy underwater neighbors! Follow along with a team of scientific divers as they explore the depths beneath the boat and introduce students to the animals below with a LIVE underwater video system. And most importantly, learn how your daily actions can help protect this magnificent, but delicate ecosystem that we all share.

**Contact:** [fieldtrips@marinescienceafloat.org](mailto:fieldtrips@marinescienceafloat.org) or 206-361-1919

**Link:** [https://marine-science-afloat.myshopify.com/](https://marine-science-afloat.myshopify.com/)

**Time:** 5.5 hours

**Cost:** $40 per person for the first 15 people; plus one complimentary chaperone per every 10 additional students. (Scholarships available)
Transportation: Must provide own transportation.

Note: Fall season runs from Labor Day to mid-November. Spring season takes place from mid-March to mid-June.

*Program fieldtrips currently on hold. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Salish Sea Expeditions: SOUND Program

Salish Sea Expeditions invites students to become scientists and mariners, facilitating student-led research and applied STEM (Science Technology Engineering and Math) skill development that focuses on the health of Puget Sound and its connected waterways aboard the 61' research sailing vessel, Carlyn. One-day and two-day (overnight) boat-based expeditions that engage students in exploring water quality issues, deploying oceanographic research tools, and practicing applied STEM skills used in maritime trades.

Cost: $400/hour for 5+ hour sail; $4800 for two-day overnight, which includes food and equipment (scholarships may be available)

3-5 day programs: This boat-based program provides 3-5 day expeditions of oceanographic research, nautical science and seamanship aboard the 61-foot sailing research vessel, Carlyn. Students lead and conduct marine science research under the careful guidance of Salish educators.

Contact: educationdirector@salish.org

Link: https://www.salish.org/programs/sound/

Time: 1-2 days

Cost: $440/hour for 5+ hour sail; $4800 for two-day overnight, including food and equipment (scholarships may be available)

Transportation: Please contact.

Note: Spring season March-June; fall season September-October. All programs include four phases: 1) pre-trip classroom instruction to develop a student science question 2) the 3-5 day boat program 3) a post-trip into the classroom to synthesize information from the trip into a student presentation 4) Student Science Symposium (optional). All science equipment, safety gear, food, and camping equipment included. Class size up to 28 students and 2 chaperones, but willing to explore alternative arrangements for larger groups. Salish Sea Expeditions also offers customized classroom-based watershed lessons.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.

*Seattle Aquarium: Orca Discovery

What do you have in common with an orca? Discover the connections we share by comparing the life cycle and physical structure of orcas to humans while building a life-size whale skeleton. Instructors will lead students in a discussion of how our actions can negatively and positively affect these amazing animals. (Max class size 32).

Link: https://www.seattleaquarium.org/site-classroom-programs
*Seattle Aquarium: Puget Sound Plankton Discovery*
Discover the most abundant organisms in Puget Sound: plankton! After conducting their own plankton tow, students will use microscopes to identify different types of plankton and learn about the role plankton plays in providing food for all as the base of the marine food web. (Max class size 32)

**Link:** [https://www.seattleaquarium.org/site-classroom-programs](https://www.seattleaquarium.org/site-classroom-programs)

**Time:** 60 minutes
**Cost:** $10 each (This is the price of aquarium admission for adults and youth 4 and up)
**Transportation:** Inquire at registration

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

*Seattle Aquarium: Hands-on Tide Pool Discovery*
Get up close and hands on with live tide pool animals. Through the use of puppets, live animals and discussion, students will learn about how these animals survive in their ever-changing habitat and how simple actions can help protect them.

**Link:** [https://www.seattleaquarium.org/site-classroom-programs](https://www.seattleaquarium.org/site-classroom-programs)

**Time:** 60 minutes
**Cost:** $10 each (This is the price of aquarium admission for adults and youth 4 and up)
**Transportation:** Please contact.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

*Seattle Parks and Recreation: Camp Long*
Bringing science, environmental education, and experiential learning to your parks. Seattle Parks and Recreation’s Environmental Education and Outdoor Learning staff provide opportunities for grades K-12 and organized groups, such as scouts and camps, to experience age-appropriate, hands-on adventures in learning about natural communities in an urban setting. Programs align with WA State Essential Academic Learning Requirements for core content areas and support science kits.

- **Ponds (spring and summer only):** Experience the freshwater habitats of a city park at Camp Long or Discovery Park. Waddling ducks, wriggling tadpoles, and dancing dragonflies are some of the creatures they may see as they explore what makes these places so special.
- **Forest:** Camp Long and Discovery Park have lots of forest habitat to explore. Venture through the trees looking for clues to animal habits, hiding places, and
seasonal happenings. Forest programs empower participants to feel comfortable in the outdoors.

Link: [https://www.seattle.gov/parks/find/centers/camp-long/camps](https://www.seattle.gov/parks/find/centers/camp-long/camps)

Transportation: Please contact.

*Not offering Nature Camps for the 2021 season, planning to reopen in 2022. Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

*Sound Experience: Sound Studies Program*

The goal of a Sound Studies program, as with all programs offered by Sound Experience, can be summarized in a single word: awareness. They believe that people will protect what they learn to value. The most effective way to have a lasting impact is to meet the following goals for every program. Goals for participants: Leave with a heightened awareness of Puget Sound as a fragile ecosystem, understand the concept of a whole system, and understand how Adventuress and the earth both illustrate this concept. Recognize the interrelationships that exist between all life. Identify the positive and negative impacts that they as individuals have on the Puget Sound ecosystem. Recognize their ability to take action by raising others’ awareness and by making responsible choices. Understand the necessity of cooperation as a course to action. Learn that Puget Sound is an incredible, diverse, and productive ecosystem and that the waterways we all share are fragile and need our care. Most importantly, students learn that they can make a difference. Experience working together to raise sails and learn about all the factors that help make a traditional sailing vessel function. When you join us for a day trip, your group will take part in an active learning and working voyage. On board our vessel, participants are able to experience how community, nature, culture, and infrastructure all interact and shape each other.

**Contact:** Amy Kovacs at [amy@soundexp.org](mailto:amy@soundexp.org) or 360-379-0438 ext. 2

**Link:** [https://www.soundexp.org/sail-with-us/schoolsyouth-groups/](https://www.soundexp.org/sail-with-us/schoolsyouth-groups/)

**Time:** 3 or 5 hours

**Cost:** Off Peak Rates (October 1-April 30): $1150 for 3 hours, $1675 for 5 hours. Peak Rates (May 1-September 30): $1210 for 3 hours, $1760 for 5 hours; inquire about scholarship opportunities that may be available

Transportation: Please contact.

**Note:** The Adventuress sails out of many ports, including: Everett, Olympia, Seattle, and Tacoma.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

*Sound Experience: Sound Experience Program*

The goal of a Sound Experience program, as with all programs offered by Sound Experience, can be summarized in a single word: awareness. We believe that people will protect what they learn to value. The most effective way to have a lasting impact is to meet the following goals for every program. Our goals for participants: Leave with a
heightened awareness of Puget Sound as a fragile ecosystem, understand the concept of a whole system, and understand how *Adventuress* and the earth both illustrate this concept; recognize the interrelationships that exist between all lives. Identify the positive and negative impacts that they as individuals have on the Puget Sound ecosystem. Recognize their ability to take action by raising others’ awareness and by making responsible choices. Understand the necessity of cooperation as a course to action; Learn that Puget Sound is an incredible, diverse, and productive ecosystem and that the waterways we all share are fragile and need our care. Most importantly, students learn that they can make a difference; Experience working together to raise sails and learn about all the factors that help make a traditional sailing vessel function. When you join us for a day trip, your group will take part in an active learning and working voyage. On board our vessel, participants are able to experience how community, nature, culture, and infrastructure all interact and shape each other.

Contact: Amy Kovacs at amy@soundexp.org and 360-379-0439

**Link:** [https://www.soundexp.org/sail-with-us/schoolsyouth-groups/](https://www.soundexp.org/sail-with-us/schoolsyouth-groups/)

**Time:** 2-7 days

**Cost:** Off Peak Rates (October 1- April 30): $2780 per day, groups between 14-18 people can come for $149/person/day and includes adults. Peak Rates (May 1-September 30): $2900 per day, groups between 14-18 people can come aboard for $159/person/day and includes adults

**Transportation:** Please contact.

**Note:** The Adventuress sails out of many ports, including: Everett, Olympia, Seattle, and Tacoma.

*Please check the website for the most up-to-date information regarding closures or modifications due to COVID-19.*

**Sound Salmon Solutions: Macroinvertebrates**

Students identify and categorize aquatic benthic macroinvertebrates as a biological indicator of water quality.

**Contact:** [http://www.soundsalmonsolutions.org/contact-us](http://www.soundsalmonsolutions.org/contact-us)

**Link:** [http://www.soundsalmonsolutions.org/education-lessons](http://www.soundsalmonsolutions.org/education-lessons)

**Time:** 45-120 minutes

**Cost:** Varies depending on funding, contact for more information

**Note:** Can be done as an in-class lab

**Sound Salmon Solutions: Water Quality Testing**

Students become scientists by collecting water samples and using testing kits to measure and collect data on the health of a local stream. They will understand the value of clean water and how that is defined

**Contact:** [http://www.soundsalmonsolutions.org/contact-us](http://www.soundsalmonsolutions.org/contact-us)

**Link:** [http://www.soundsalmonsolutions.org/education-lessons](http://www.soundsalmonsolutions.org/education-lessons)

**Time:** 45-60 minutes

**Cost:** Varies, possibly free depending on funding, contact for more information
Sound Salmon Solutions: The 5 C’s of Salmon Habitat (Field Trip Add-On)
Students learn about the critical habitat components necessary for salmon survival! This lesson can be added on to any field trip.
Contact: http://www.soundsalmonsolutions.org/contact-us
Link: http://www.soundsalmonsolutions.org/education-lessons
Time: 30 minutes
Cost: Varies, possibly free depending on funding, contact for more information

Waskowitz Outdoor Education Center: 4-day or 5-day program
Waskowitz Outdoor School Programs are a magical journey of discovery exploring the diversity of people and nature! For over 59 years Waskowitz has been welcoming classes from throughout the Puget Sound region to investigate the beauty of the Pacific Northwest through classes in forest and river ecology as well as forming bonds with new friends from different school.
Contact: Meredith von Trapp at meredith.vontrapp@highlineschools.org or 425-277-7195
Link: https://www.highlineschools.org/academic-programs/waskowitz-outdoor-education/outdoor-school
Cost: $175 for 4 days per student, $195 for 5 days per students
Transportation: Please contact.

Projects

Nature Vision: Blue Teams
Nature Vision offers Blue Teams, a student stewardship project funded by our water sponsors. Blue Teams are groups of kindergarten-12th grade students who commit to taking on and completing a watershed stewardship project. Students complete projects such as invasive plant removal, native plant restoration, planting water-wise gardens, finding and fixing leaks, and much more.
The Blue Team program was developed to educate local youth about water resources and related ecosystems, foster sustainable stewardship values and practices in the community through hands-on youth projects, and to empower youth to take positive steps to improve their local environment.
Blue Teams receive Nature Vision’s help in planning, preparing for, and executing their projects at school or at an off-campus project site, as well as regular teacher consultations via phone or email. Teachers/Instructors may register their class or youth group to become a team, and Nature Vision staff will help each team to design a watershed stewardship project. Staff will visit the students multiple times to teach inquiry-based programs, giving the students the knowledge and help they will need to successfully complete and understand the value of their project.
Link: https://naturevision.org/blue-teams
Nature Vision: Community Science

Community science is a process by which members of the public can participate in important scientific research. Under the guidance of a Nature Vision educator, students will work as scientists and help record data on the health of their local waterways.

Students start their programs with a brief introduction to community science and the scientific method, before learning and practicing how to collect valuable data on water quality. Using these new skills, they can then investigate a local body of water and analyze real-world data in order to help local scientists monitor the health of their watershed.

These programs can be arranged either as a stand-alone series of classes, or as a part of a longer Blue Team module. We encourage teachers to schedule the programs at regular intervals each year in order to collect a body of data that can be referenced by each new class. Every year students may add their findings to the classes that came before them, providing an even better sense of the health of their local waterways over time.

Link: [https://naturevision.org/community-science](https://naturevision.org/community-science)
Contact: info@naturevision.org
Time: Variable
Cost: Free for most schools. Inquire about free programs with info@naturevision.org
Transportation: Must provide own transportation.
Note: Community Science is now virtual, inquire about options for virtual programs.
Nature Vision also offers in-class and virtual lessons and field trips.

Sound Salmon Solutions: Tree Planting

Students are given an opportunity to plant native trees and shrubs on an active habitat restoration site.

Contact: [http://www.soundsalmonsolutions.org/contact-us](http://www.soundsalmonsolutions.org/contact-us)
Link: [http://www.soundsalmonsolutions.org/education-lessons](http://www.soundsalmonsolutions.org/education-lessons)
Time: 60-90 minutes
Cost: Varies, possibly free depending on funding, contact for more information

City of Burien: StormFest Toolkit

Polluted stormwater runoff is the number one threat to the water quality of the Puget Sound. The purpose of the StormFest Toolkit and curricula is to develop and promote an understanding of the serious issues facing our community from stormwater runoff through a hands-on experience. The curricula meets Next Generation Science Standards (NGSS) and Common Core science standards and was developed to serve a highly
diverse school district, intentionally designed as an equitable education opportunity for all students regardless of race, ethnicity, or English language learning status. The toolkit details how districts or teachers can adapt and host StormFest to serve your own community. Curriculum can be modified for grades 4th through 8th, and education materials are provided in both English and Spanish.

Link: [https://www.pugetsoundstartshere.org/Resources.aspx](https://www.pugetsoundstartshere.org/Resources.aspx)

Contact: Paige Morris at Paigem@burienwa.gov or 206-248-5511

Time: Variable

Cost: No Cost
Teacher Resources

Kindergarten Resources

King County DNRP: Water Education Curriculum, Videos, Maps, Video Lessons, and more
Link: https://kingcounty.gov/services/environment/wastewater/education/resources.aspx
Cost: No cost

King County Green Schools Program – Level Three: Water conservation and pollution prevention
The King County Green Schools Program provides assistance, tools, and recognition to student teams, schools, and school districts to help them improve conservation practices. Level Three of the program is focused on water conservation and pollution prevention best practices for schools. In addition to a Best Practices Guide on water conservation and pollution prevention, the program provides tailored recommendations to help with school-wide education and outreach on stormwater pollution prevention. If a King County Green School participant takes advantage of the resources in this guide, those actions can count toward meeting Level Three recognition criteria.
Time: Variable
Cost: No cost

Department of Ecology: Discover Wetlands
A curriculum guide for grades K-12 which focuses on what wetlands are, why they are important, and how human actions affect them.
Time: Variable
Cost: No Cost

Facing the Future
Facing the Future creates tools for educators that equip and motivate students to develop critical thinking skills, build global awareness, and engage in positive solutions for a sustainable future.
Contact: facingthefuture@wwu.edu

King County Stormwater Elementary Education Resource Guide
Created April 2017 – Updated November 2021
FOSS Kits: Trees and Weather
The Trees and Weather Module provides students with experiences to help them develop an understanding of what plants (and animals) need to survive and the relationship between their needs and where they live. By monitoring local weather, students experience the patterns and variations in weather and come to understand the importance of weather forecasts to prepare for severe weather.
Link: https://www.fossweb.com/foss-modules
Time: Variable
Cost: No cost

Got Green
Got Green is a South Seattle based grassroots organization that raises the voices of low income communities and communities of color in the green movement.
Link: https://gotgreenseattle.org/
Cost: No Cost

Puget Sound Starts Here: Drain Rangers
Polluted stormwater runoff is the number one threat to the water quality of the Puget Sound. The purpose of the Drain Rangers! and Engineering Solutions curricula and materials is to develop and cultivate an understanding of the serious issues facing our community from stormwater runoff and to share specific actions we can take to improve the quality of our water. In these units, students will utilize problem solving models to replicate the thinking process of engineers addressing polluted stormwater runoff.
Link: http://www.pugetsoundstartshere.org/drain-rangers
Time: Variable
Cost: No Cost
Note: Spanish version available.

First Grade Resources

King County DNRP: Water Education Curriculum, Videos, Maps, Video Lessons, and more
Link: https://kingcounty.gov/services/environment/wastewater/education/resources.aspx
Cost: No cost
King County Green Schools Program – Level Three: Water conservation and pollution prevention

The King County Green Schools Program provides assistance, tools, and recognition to student teams, schools, and school districts to help them improve conservation practices. Level Three of the program is focused on water conservation and pollution prevention best practices for schools. In addition to a Best Practices Guide on water conservation and pollution prevention, the program provides tailored recommendations to help with school-wide education and outreach on stormwater pollution prevention. If a King County Green School participant takes advantage of the resources in this guide, those actions can count toward meeting Level Three recognition criteria.


**Time:** Variable

**Cost:** No cost

Department of Ecology: Discover Wetlands

A curriculum guide for grades K-12 which focuses on what wetlands are, why they are important, and how human actions affect them.

- **Unit I:** Washington’s Wetlands
- **Unit II:** Amazing Wetlands: Functions and Values
- **Unit III:** People and Wetlands
- **Unit IV:** A Walk on the Wild Side
  (https://fortress.wa.gov/ecy/publications/documents/8816d.pdf)

**Time:** Variable

**Cost:** No Cost

Facing the Future

Facing the Future creates tools for educators that equip and motivate students to develop critical thinking skills, build global awareness, and engage in positive solutions for a sustainable future.

**Contact:** facingthefuture@wwu.edu

**Cost:** No Cost

Got Green

Got Green is a South Seattle based grassroots organization that raises the voices of low income communities and communities of color in the green movement.

**Link:** https://gotgreenseattle.org/

**Cost:** No Cost

Puget Sound Starts Here: Drain Rangers
Polluted stormwater runoff is the number one threat to the water quality of the Puget Sound. The purpose of the Drain Rangers! and Engineering Solutions curricula and materials is to develop and cultivate an understanding of the serious issues facing our community from stormwater runoff and to share specific actions we can take to improve the quality of our water. In these units, students will utilize problem solving models to replicate the thinking process of engineers addressing polluted stormwater runoff.

Link: [http://www.pugetsoundstartshere.org/drain-rangers](http://www.pugetsoundstartshere.org/drain-rangers)

Time: Variable

Cost: No Cost

Note: Spanish version available.

**Second Grade Resources**

King County DNRP: Water Education Curriculum, Videos, Maps, Video Lessons, and more

Link: [https://kingcounty.gov/services/environment/wastewater/education/resources.aspx](https://kingcounty.gov/services/environment/wastewater/education/resources.aspx)

Cost: No cost

King County Green Schools Program – Level Three: Water conservation and pollution prevention

The King County Green Schools Program provides assistance, tools, and recognition to student teams, schools, and school districts to help them improve conservation practices. Level Three of the program is focused on water conservation and pollution prevention best practices for schools. In addition to a Best Practices Guide on water conservation and pollution prevention, the program provides tailored recommendations to help with school-wide education and outreach on stormwater pollution prevention. If a King County Green School participant takes advantage of the resources in this guide, those actions can count toward meeting Level Three recognition criteria.


Time: Variable

Cost: No cost

Department of Ecology: Discover Wetlands

A curriculum guide for grades K-12 which focuses on what wetlands are, why they are important, and how human actions affect them.

Unit I: Washington’s Wetlands


Unit II: Amazing Wetlands: Functions and Values

Unit III: People and Wetlands
Unit IV: A Walk on the Wild Side
(https://fortress.wa.gov/ecy/publications/documents/8816d.pdf)

Time: Variable
Cost: No Cost

Earth Echo: Make a Splash: A Kid's Guide to Protecting Our Oceans, Lakes, Rivers, and Wetlands
This Leader's Guide provides a sequence of activities to support classroom teachers, youth group or club sponsors, or any adult invested in engaging youth in meaningful service learning that addresses the global water crisis as outlined in the stories of Make a Splash! The Leader's Guide helps harness the enthusiasm and energy to plan for positive change in their classroom, their community, and the wider world!
Link: http://earthecho.org/educator-resources/a-leaders-guide-to-make-a-splash
Time: Variable
Cost: Variable (Leaders Guide free-Student Guide online)

Facing the Future
Facing the Future creates tools for educators that equip and motivate students to develop critical thinking skills, build global awareness, and engage in positive solutions for a sustainable future.
Contact: facingthefuture@wwu.edu
Cost: No Cost

FOSS Kits: Pebbles, Sand, and Silt
This module provides grade 2 students with earth science core ideas dealing with the observable structures and properties of earth materials (rocks, soil, and water), weathering and erosion of Earth’s surface, natural sources of water, and how to represent the shapes and kinds of land and bodies of water on Earth. Students explore how wind and water change the shape of the land and compare ways to slow the process of erosion. Students learn about the important role that earth materials have as natural resources.
Link: https://www.fossweb.com/foss-modules
Cost: No Cost

Got Green
Got Green is a South Seattle based grassroots organization that raises the voices of low income communities and communities of color in the green movement.
Link: https://gotgreenseattle.org/
Cost: No Cost

Puget Sound Starts Here: Drain Rangers
Polluted stormwater runoff is the number one threat to the water quality of the Puget Sound. The purpose of the Drain Rangers! and Engineering Solutions curricula and materials is to develop and cultivate an understanding of the serious issues facing our community from stormwater runoff and to share specific actions we can take to improve the quality of our water. In these units, students will utilize problem solving models to replicate the thinking process of engineers addressing polluted stormwater runoff.

Link: http://www.pugetsoundstartshere.org/drain-rangers

Time: Variable
Cost: No Cost
Note: Spanish version available.

Third Grade Resources

King County DNRP: Water Education Curriculum, Videos, Maps, Video Lessons, and more
Link: https://kingcounty.gov/services/environment/wastewater/education/resources.aspx
Cost: No cost

King County Green Schools Program – Level Three: Water conservation and pollution prevention
The King County Green Schools Program provides assistance, tools, and recognition to student teams, schools, and school districts to help them improve conservation practices. Level Three of the program is focused on water conservation and pollution prevention best practices for schools. In addition to a Best Practices Guide on water conservation and pollution prevention, the program provides tailored recommendations to help with school-wide education and outreach on stormwater pollution prevention. If a King County Green School participant takes advantage of the resources in this guide, those actions can count toward meeting Level Three recognition criteria.
Time: Variable
Cost: No cost

King County: Protecting Our Liquid Assets
This course for Vashon Island provides students with the first steps along the path of ecological understanding, with the hope that their future steps will be considered and measured, serving the interests of all life.
Time: Variable
Cost: No Cost
Note: King County also offers in-class lessons, field trips, and projects.

King County: Online Publications
This web page is a useful resource for students doing research on local environmental issues. Online publications, including reports, newsletters, and brochures.
Link: www.kingcounty.gov/depts/dnrp/publications.aspx
Time: Variable
Cost: No Cost
Note: King County also offers in-class lessons, field trips, and projects.

King County: GIS Custom Map Products
King County GIS (Geographic Information Sciences) can prepare custom map products for curriculum support. For example, Sustainability Ambassadors, a non-profit organization empowering youth in community sustainability, engaged the King County GIS Center to help create a themed atlas of stormwater indicator maps for the Tahoma School District in suburban King County. The “Stormwater Neighborhood Atlas” serves as a community outreach tool to show students and the broader community the environmental conditions of their neighborhoods, highlighting unique project opportunities, such as pervious pavement installation and rainwater harvesting at the district’s own schools. Local student Sustainability Ambassadors worked with the school district, the Chamber of Commerce, the Rotary Club and the City of Maple Valley to distribute the “Stormwater Neighborhood Atlas” in classrooms throughout the district, in the public library, and for casual viewing in doctor and dentist waiting rooms and in the lobbies of public spaces such as coffee shops and city buildings. The King County GIS Center’s unique cartographic and design capabilities, and its direct access to King County’s extensive
Contact: Dennis Higgins at dennis.higgins@kingcounty.gov or 206-477-4415
Link: https://kingcounty.gov/services/gis/Maps/map-hub.aspx
Time: Variable
Cost: No Cost
Note: King County also offers in-class lessons, field trips, and projects.

Department of Ecology: Discover Wetlands
A curriculum guide for grades K-12 which focuses on what wetlands are, why they are important, and how human actions affect them.
Unit IV: A Walk on the Wild Side
(https://fortress.wa.gov/ecy/publications/documents/8816d.pdf)
Time: Variable
Cost: No Cost

Earth Echo: Make a Splash: A Kid's Guide to Protecting Our Oceans, Lakes, Rivers, and Wetlands
This Leader's Guide provides a sequence of activities to support classroom teachers, youth group or club sponsors, or any adult invested in engaging youth in meaningful service learning that addresses the global water crisis as outlined in the stories of Make a Splash! The Leader's Guide helps harness the enthusiasm and energy to plan for positive change in their classroom, their community, and the wider world!
Link: http://earthecho.org/educator-resources/a-leaders-guide-to-make-a-splash
Time: Variable
Cost: Variable (Leaders Guide free-Student Guide online)

Facing the Future
Facing the Future creates tools for educators that equip and motivate students to develop critical thinking skills, build global awareness, and engage in positive solutions for a sustainable future.
Contact: facingthefuture@wwu.edu
Cost: No Cost

FOSS Kits: Environments
The Environments Module has four investigations that focus on the concepts that organisms have structures and behaviors, including sensory receptors, that serve functions in growth, survival and reproduction, and living organisms depend on one another and on their environment for their survival and the survival of populations. Students design investigations to study preferred environments, range of tolerance, and optimum conditions for growth and survival of specific organisms. They conduct controlled experiments by incrementally changing specific environmental conditions to determine the range of tolerance for early growth of seeds and hatching of brine shrimp, and use these data to develop and use models to understand the impact of changes to the environment. They graph and interpret data from multiple trials of experiments and build explanations from evidence. Students gain experiences that will contribute to the understanding of crosscutting concepts of patterns; cause and effect; scale, proportion, and quantity; systems and system models; energy and matter; structure and function; and stability and change.
Link: https://www.fossweb.com/foss-modules
Cost: No Cost

Got Green
Got Green is a South Seattle based grassroots organization that raises the voices of low income communities and communities of color in the green movement.
Link: https://gotgreenseattle.org/
Cost: No Cost

Leaping Frog: Illahee: Saving Puget Sound One Watershed at a Time
This video [Illahee] is an inspirational story of a community’s effort to preserve and restore a forest, a salmon stream, and Puget Sound. Bordering on Washington State’s Puget Sound is a little gem of a community known as Illahee. What makes it so unique is that while surrounded by development, much of Illahee’s natural beauty has been preserved. Started modestly by forward-looking residents of the past, and carried on by succeeding generations, this extraordinary and sustained effort insures that Illahee’s natural treasures will be its legacy to the future of Puget Sound.
Contact: shellysol@olypen.com
Link: http://www.leapingfrogfilms.com/
Time: 30 minutes or less
Cost: No Cost (other videos available on sliding scale)

Nature Conservancy: Nature Works Everywhere: Garden Lesson: Water
By filtering rainwater and slowing the movement of water to rivers, lakes and oceans, your garden works as a mini-watershed. In this lesson, students calculate the permeable surface area of their garden and periodically measure rainfall amounts, acting as junior hydrologists. Using the collected data, students determine how much water their garden filters and explore the relationship between their garden and water quality in the surrounding watershed.
Link: https://www.natureworkseverywhere.org/resources/activity-guide-water/
Time: Variable
Cost: No Cost

Soil sustains plant and animal life, regulates water, filters pollutants, cycles nutrients and supports structures. In this lesson, students learn the value of soil and its role as a natural resource. Students investigate how humans and many other organisms rely on soil and explore why it is important to monitor and maintain the health of soil. They also learn how agriculture, home building and road construction change the land in ways different from how nature changes the land.
Link: https://www.natureworkseverywhere.org/resources/how-dirt-works/
Time: 3 45-minute lessons
Cost: No Cost

Nature Conservancy: Nature Works Everywhere: City Habitats
Online teacher resource.
Link: http://www.cityhabitats.org/

Puget Sound Starts Here: Drain Rangers
Polluted stormwater runoff is the number one threat to the water quality of the Puget Sound. The purpose of the *Drain Rangers!* and *Engineering Solutions* curricula and materials is to develop and cultivate an understanding of the serious issues facing our community from stormwater runoff and to share specific actions we can take to improve the quality of our water. In these units, students will utilize problem solving models to replicate the thinking process of engineers addressing polluted stormwater runoff.

Link: [http://www.pugetsoundstartshere.org/drain-rangers](http://www.pugetsoundstartshere.org/drain-rangers)

**Time:** Variable  
**Cost:** No Cost  
**Note:** Spanish version available.

Seattle Public Utilities: Lost and (Puget) Sound  
This film follows three teens who lose a key down a storm drain. Must email Beth for CD with lessons.  
**Contact:** Beth Miller at beth.miller@seattle.gov  
**Time:** 29 minute video plus lesson  
**Cost:** No Cost

Washington Stormwater Center: Supplemental Videos  
[Link](https://www.youtube.com/user/StormwaterChannel/playlists?view=1&sort=dd&shelf_id=0)  
**Cost:** No Cost

WA Department of Fish and Wildlife: Wild Washington Lesson Plans  
As the global COVID-19 pandemic continues, educators, students, and parents are adapting to the new normal of distance/remote learning. To provide support for learners in Washington, we are offering wildlife-themed curriculum for elementary, middle school, and high school students. Our Wild Washington lessons incorporate disciplines ranging from math and science to art and literature. Lessons align with the Office of Superintendent of Public Instruction’s state and national environmental and sustainability learning standards. Wild Washington lessons have modifications embedded for distance learning, but are also developed for teachers to use when Washington students return back to their classrooms.  
[Link](https://wdfw.wa.gov/get-involved/environmental-education-curriculum)  
**Cost:** No cost

**Fourth Grade Resources**

King County DNRP: Water Education Curriculum, Videos, Maps, Video Lessons, and more
King County Green Schools Program – Level Three: Water conservation and pollution prevention
The King County Green Schools Program provides assistance, tools, and recognition to student teams, schools, and school districts to help them improve conservation practices. Level Three of the program is focused on water conservation and pollution prevention best practices for schools. In addition to a Best Practices Guide on water conservation and pollution prevention, the program provides tailored recommendations to help with school-wide education and outreach on stormwater pollution prevention. If a King County Green School participant takes advantage of the resources in this guide, those actions can count toward meeting Level Three recognition criteria.

Time: Variable
Cost: No cost

King County: Protecting Our Liquid Assets
This course for Vashon Island provides students with the first steps along the path of ecological understanding, with the hope that their future steps will be considered and measured, serving the interests of all life.

Time: Variable
Cost: No Cost
Note: King County also offers in-class lessons, field trips, and projects.

King County: Online Publications
This web page is a useful resource for students doing research on local environmental issues. Online publications, including reports, newsletters, and brochures.

Link: www.kingcounty.gov/depts/dnrp/publications.aspx
Time: Variable
Cost: No Cost
Note: King County also offers in-class lessons, field trips, and projects.

King County: GIS Custom Map Products
King County GIS (Geographic Information Sciences) can prepare custom map products for curriculum support. For example, Sustainability Ambassadors, a non-profit organization empowering youth in community sustainability, engaged the King County GIS Center to help create a themed atlas of stormwater indicator maps for the Tahoma School District in suburban King County. The “Stormwater Neighborhood Atlas” serves
as a community outreach tool to show students and the broader community the environmental conditions of their neighborhoods, highlighting unique project opportunities, such as pervious pavement installation and rainwater harvesting at the district’s own schools. Local student Sustainability Ambassadors worked with the school district, the Chamber of Commerce, the Rotary Club and the City of Maple Valley to distribute the “Stormwater Neighborhood Atlas” in classrooms throughout the district, in the public library, and for casual viewing in doctor and dentist waiting rooms and in the lobbies of public spaces such as coffee shops and city buildings. The King County GIS Center’s unique cartographic and design capabilities, and its direct access to King County’s extensive
Contact: Dennis Higgins at dennis.higgins@kingcounty.gov or 206-477-4415
Link: https://kingcounty.gov/services/gis/Maps/map-hub.aspx
Time: Variable
Cost: No Cost
Note: King County also offers in-class lessons, field trips, and projects.

Department of Ecology: Discover Wetlands
A curriculum guide for grades K-12 which focuses on what wetlands are, why they are important, and how human actions affect them.
   Unit I: Washington’s Wetlands
   Unit II: Amazing Wetlands: Functions and Values
   Unit III: People and Wetlands
   Unit IV: A Walk on the Wild Side
   (https://fortress.wa.gov/ecy/publications/documents/8816d.pdf)
Time: Variable
Cost: No Cost

Earth Echo: Make a Splash: A Kid’s Guide to Protecting Our Oceans, Lakes, Rivers, and Wetlands
This Leader’s Guide provides a sequence of activities to support classroom teachers, youth group or club sponsors, or any adult invested in engaging youth in meaningful service learning that addresses the global water crisis as outlined in the stories of Make a Splash! The Leader’s Guide helps harness the enthusiasm and energy to plan for positive change in their classroom, their community, and the wider world!
Link: http://earthecho.org/educator-resources/a-leaders-guide-to-make-a-splash
Time: Variable
Cost: Variable (Leaders Guide free-Student Guide online)

Facing the Future
Facing the Future creates tools for educators that equip and motivate students to develop critical thinking skills, build global awareness, and engage in positive solutions for a sustainable future.

Contact: facingthefuture@wwu.edu

Cost: No Cost

FOSS Kits: Water and Climate

Water is the most important substance on Earth. Water dominates the surface of our planet, changes the face of the land, and defines life. Weather is driven by the Sun and involves the movement of water over the earth through evaporation, condensation, precipitation, and runoff—the water cycle. Climate is determined in part by the amount of precipitation in a region and by temperature fluctuations. Human societies depend on water, and new technologies are being engineered to conserve and protect this natural resource, to provide for the needs of people around the world.

Link: https://www.fossweb.com/foss-modules

Cost: No Cost

Got Green

Got Green is a South Seattle based grassroots organization that raises the voices of low income communities and communities of color in the green movement.

Link: https://gotgreenseattle.org/

Cost: No Cost

Leaping Frog: Illahee: Saving Puget Sound One Watershed at a Time

This video [Illahee] is an inspirational story of a community’s effort to preserve and restore a forest, a salmon stream, and Puget Sound. Bordering on Washington State’s Puget Sound is a little gem of a community known as Illahee. What makes it so unique is that while surrounded by development, much of Illahee’s natural beauty has been preserved. Started modestly by forward-looking residents of the past, and carried on by succeeding generations, this extraordinary and sustained effort insures that Illahee’s natural treasures will be its legacy to the future of Puget Sound.

Contact: shellysol@olypen.com

Link: http://www.leapingfrogfilms.com/

Time: 30 minutes or less

Cost: No Cost (other videos available on sliding scale)

Nature Conservancy: Nature Works Everywhere: Garden Lesson: Water

By filtering rainwater and slowing the movement of water to rivers, lakes and oceans, your garden works as a mini-watershed. In this lesson, students calculate the permeable surface area of their garden and periodically measure rainfall amounts, acting as junior hydrologists. Using the collected data, students determine how much water their garden filters and explore the relationship between their garden and water quality in the surrounding watershed.

Soil sustains plant and animal life, regulates water, filters pollutants, cycles nutrients and supports structures. In this lesson, students learn the value of soil and its role as a natural resource. Students investigate how humans and many other organisms rely on soil and explore why it is important to monitor and maintain the health of soil. They also learn how agriculture, home building and road construction change the land in ways different from how nature changes the land.

Link: https://www.natureworkseverywhere.org/resources/how-dirt-works/
Time: Three 45-minute lessons
Cost: No Cost

Nature Conservancy: Nature Works Everywhere: City Habitats

Link: http://www.cityhabitats.org/
Time: Variable
Cost: No Cost

Puget Sound Starts Here: Drain Rangers

Polluted stormwater runoff is the number one threat to the water quality of the Puget Sound. The purpose of the Drain Rangers! and Engineering Solutions curricula and materials is to develop and cultivate an understanding of the serious issues facing our community from stormwater runoff and to share specific actions we can take to improve the quality of our water. In these units, students will utilize problem solving models to replicate the thinking process of engineers addressing polluted stormwater runoff.

Link: http://www.pugetsoundstartshere.org/drain-rangers
Time: Variable
Cost: No Cost
Note: Spanish version available.

Seattle Public Utilities: Lost and (Puget) Sound

This film follows three teens who lose a key down a storm drain. Email Beth for CD with lessons.
Contact: Beth Miller at beth.miller@seattle.gov
Time: 29 minute video plus lesson
Cost: No Cost
Washington Stormwater Center: Supplemental Videos
  Link: https://www.youtube.com/user/StormwaterChannel/playlists?view=1&sort=dd&shelf_id=0
  Cost: No Cost

WA Department of Fish and Wildlife: Wild Washington Lesson Plans
  As the global COVID-19 pandemic continues, educators, students, and parents are adapting to the new normal of distance/remote learning. To provide support for learners in Washington, we are offering wildlife-themed curriculum for elementary, middle school, and high school students.
  Our Wild Washington lessons incorporate disciplines ranging from math and science to art and literature. Lessons align with the Office of Superintendent of Public Instruction’s state and national environmental and sustainability learning standards.
  Wild Washington lessons have modifications embedded for distance learning, but are also developed for teachers to use when Washington students return back to their classrooms.
  Link: https://wdfw.wa.gov/get-involved/environmental-education-curriculum
  Cost: No cost

Fifth Grade Resources

King County DNRP: Water Education Curriculum, Videos, Maps, Video Lessons, and more
  Link: https://kingcounty.gov/services/environment/wastewater/education/resources.aspx
  Cost: No cost

King County Green Schools Program – Level Three: Water conservation and pollution prevention
  The King County Green Schools Program provides assistance, tools, and recognition to student teams, schools, and school districts to help them improve conservation practices. Level Three of the program is focused on water conservation and pollution prevention best practices for schools. In addition to a Best Practices Guide on water conservation and pollution prevention, the program provides tailored recommendations to help with school-wide education and outreach on stormwater pollution prevention. If a King County Green School participant takes advantage of the resources in this guide, those actions can count toward meeting Level Three recognition criteria.
  Time: Variable
  Cost: No cost
King County: Protecting Our Liquid Assets

This course for Vashon Island provides students with the first steps along the path of ecological understanding, with the hope that their future steps will be considered and measured, serving the interests of all life.


**Time:** Variable  
**Cost:** No Cost

King County: Online Publications

This web page is a useful resource for students doing research on local environmental issues. Online publications, including reports, newsletters, and brochures.

Link: [www.kingcounty.gov/depts/dnrp/publications.aspx](http://www.kingcounty.gov/depts/dnrp/publications.aspx)

**Time:** Variable  
**Cost:** No Cost

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**Contact:** Dennis Higgins at dennis.higgins@kingcounty.gov or 206-477-4415

Link: [https://kingcounty.gov/services/gis/Maps/map-hub.aspx](https://kingcounty.gov/services/gis/Maps/map-hub.aspx)

**Time:** Variable  
**Cost:** No Cost

**Note:** King County also offers in-class lessons, field trips, and projects.

Department of Ecology: Discover Wetlands

A curriculum guide for grades K-12 which focuses on what wetlands are, why they are important, and how human actions affect them.

- **Unit I:** Washington’s Wetlands  

- **Unit II:** Amazing Wetlands: Functions and Values  
Unit III: People and Wetlands
Unit IV: A Walk on the Wild Side
(https://fortress.wa.gov/ecy/publications/documents/8816d.pdf)

Time: Variable
Cost: No Cost

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Link: http://earthecho.org/educator-resources/a-leaders-guide-to-make-a-splash
Time: Variable
Cost: Variable (Leaders Guide free-Student Guide online)

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Contact: facingthefuture@wwu.edu
Cost: No Cost

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Contact: shellysol@olypen.com
Link: http://www.leapingfrogfilms.com/
Time: 30 minutes or less
Cost: No Cost (other videos available on sliding scale)
Nature Conservancy Nature Works Everywhere; Garden Lesson “Water”
By filtering rainwater and slowing the movement of water to rivers, lakes and oceans, your garden works as a mini-watershed. In this lesson, students calculate the permeable surface area of their garden and periodically measure rainfall amounts, acting as junior hydrologists. Using the collected data, students determine how much water their garden filters and explore the relationship between their garden and water quality in the surrounding watershed.
Link: https://www.natureworkseverywhere.org/resources/activity-guide-water/
Time: Variable
Cost: No Cost

Nature Conservancy Nature Works Everywhere; How Dirt Works
Soil sustains plant and animal life, regulates water, filters pollutants, cycles nutrients and supports structures. In this lesson, students learn the value of soil and its role as a natural resource. Students investigate how humans and many other organisms rely on soil and explore why it is important to monitor and maintain the health of soil. They also learn how agriculture, home building and road construction change the land in ways different from how nature changes the land.
Link: https://www.natureworkseverywhere.org/resources/how-dirt-works/
Time: 3 45-minute lessons
Cost: No Cost

Nature Conservancy Nature Works Everywhere; City Habitats
Online teacher resource.
Link: http://www.cityhabitats.org/
Cost: No Cost

Puget Sound Starts Here: Drain Rangers
Polluted stormwater runoff is the number one threat to the water quality of the Puget Sound. The purpose of the Drain Rangers! and Engineering Solutions curricula and materials is to develop and cultivate an understanding of the serious issues facing our community from stormwater runoff and to share specific actions we can take to improve the quality of our water. In these units, students will utilize problem solving models to replicate the thinking process of engineers addressing polluted stormwater runoff.
Link: http://www.pugetsoundstartshere.org/drain-rangers
Time: Variable
Cost: No Cost
Note: Spanish version available.

Seattle Public Utilities: Lost and (Puget) Sound
This film follows three teens who lose a key down a storm drain. Must email Beth for CD with lessons
Contact: Beth Miller at beth.miller@seattle.gov
Time: 29 minute video plus lesson
Cost: No Cost

Washington Stormwater Center: Supplemental Videos
Link: https://www.youtube.com/user/StormwaterChannel/playlists?view=1&sort=dd&shelf_id=0
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WA Department of Fish and Wildlife: Wild Washington Lesson Plans
As the global COVID-19 pandemic continues, educators, students, and parents are adapting to the new normal of distance/remote learning. To provide support for learners in Washington, we are offering wildlife-themed curriculum for elementary, middle school, and high school students.
Our Wild Washington lessons incorporate disciplines ranging from math and science to art and literature. Lessons align with the Office of Superintendent of Public Instruction’s state and national environmental and sustainability learning standards.
Wild Washington lessons have modifications embedded for distance learning, but are also developed for teachers to use when Washington students return back to their classrooms.
Link: https://wdfw.wa.gov/get-involved/environmental-education-curriculum
Cost: No cost
Diversity, Equity, Inclusion, and Accessibility Resources

Accessibility

TeacherVision provides resources and tips for teaching children with disabilities and helping them thrive in an inclusive classroom.

University of Washington offers guidelines for educators, events and online access at [https://www.washington.edu/compliance/ada/best-practices-for-access/](https://www.washington.edu/compliance/ada/best-practices-for-access/)


How to Teach Children About Disabilities and Inclusion [https://onlinegrad.baylor.edu/resources/teaching-children-disabilities-inclusion/](https://onlinegrad.baylor.edu/resources/teaching-children-disabilities-inclusion/)

Anti-Defamation League
ADL is a global leader in exposing extremism and delivering anti-bias education. They have a collection of K-12 classroom blended and online learning solutions for educators and students that promotes critical thinking and learning around historical and current events topics through the lens of diversity, bias and social justice.


Time: 15 minutes—1 hour, varies depending on lesson plan

Cost: No cost

Note: Lesson plans to go through with students from elementary to middle and high school on a variety of topics.

Liberated Village

Our collective efforts have a shared vision to seek liberation and healing from systemic racism and internalized oppression and to restore scholars, parents/guardians, and family’s belief in their abilities, natural talents, and brilliance. There are 30 organization that make up the Liberated Village that impact educational systems and environments through leading staff professional development related to anti-racist practices/pedagogy and build strong relationships with scholars and families. These best practices lead to a more positive school climate and culture.

Link: [https://www.liberatedvillage.com/](https://www.liberatedvillage.com/)

Cost: Free for educators/administrators

Time: Variable based on projects and training

Note: To gain access to content and trainings, sign up for free: [https://www.liberatedvillage.com/offers/MqsWHMmo/checkout](https://www.liberatedvillage.com/offers/MqsWHMmo/checkout)
National Education Association: Education Justice
Black Lives Matter at School Resources
Check out resources to help facilitate conversations about race, including classroom appropriate lesson plans, guides on how to have tough conversations with peers and students, and more.
Link: https://neaedjustice.org/black-lives-matter-school-resources/
Cost: No cost
Contact: neaedjustice@nea.org

National Education Association: Education Justice
Protecting Our Students’ Civil Rights
In the face of federal civil rights rollbacks and threats, educators, parents and students are organizing to adopt school board policies that strengthen student protections. Get inspired by educators and students making change in their communities and find model policies that will empower you to ensure all students’ right to a safe and affirming school.
Link: https://neaedjustice.org/protecting-our-students-civil-rights/
Contact: neaedjustice@nea.org
Cost: No cost
Note: Compilation of stories, policies, and tips for teachers and parents/caregivers.

Seattle Education Association Center for Racial Equity
The Mission of the Center for Racial Equity is to empower educators, both individually and collectively to dismantle racial injustice in the SEA, our schools, our community, and our profession. The Center for Racial Equity is dedicated to providing resources for educators, school staff, community members, and family members.
Link: https://searacialequity.com/resources/
Contact: Marquita Prinzing at mprinzing@washingtonea.org
Cost: No cost

Seattle Public Schools Black Lives Matter Resources
Seattle Public Schools is committed to racial justice and recognition of the lived experiences of our Black youth every single day.
Link: https://www.seattleschools.org/departments/library-services/library-resources/social-justice-resources/
Cost: No cost
Note: SPS compiled many different resources on antiracism, supporting black owned business, supporting black community led efforts, and prioritizing voices of black youth and other students of color.

School’s Out Washington
Our education and other youth-serving systems are not equitably providing the supports and resources needed to help all young people achieve. The truth is that some young
people need more because of the historical and structural systems in place that have perpetuated racism. Data on a variety of youth outcomes show us that racial disparities continue to exist. At SOWA, we are committed to addressing how these disparities impact young people in our communities. We believe that access to high-quality expanded learning opportunities is essential for closing the opportunity gap and challenging inequity. We know first-hand from three decades of work in diverse communities how expanded learning opportunities can level the playing field. That is why we strive to increase access to quality programs for youth of color so that they have the opportunity to reach their full potential.

Link: https://workshops.schoolsoutwashington.org/pages/racial-equity-resources
Cost: No cost
Note: Compilation of racial equity resources for teachers and educators working directly with students.

School’s Out Washington
Exploring Structural Racism and Cultural Responsiveness: An Inclusive Approach for Youth Programs

School's Out Washington developed these foundational trainings for all staff working directly with young people. Since these trainings build upon one another, we highly recommend starting with Exploring Structural Racism before moving on to Cultural Responsiveness.

Link: https://workshops.schoolsoutwashington.org/collections/structural-racism
Time: 2 hours
Cost: No cost
Contact: Nerrisah Townsend at ntownsend@schoolsoutwashington.org
Note: Due to the limitations of virtual training, some content may slightly differ from in person training.

Teaching Tolerance Classroom Resources
From film kits and lesson plans to the building blocks of a customized Learning Plan—texts, student tasks and teaching strategies—our resources will help you bring relevance, rigor and social emotional learning into your classroom.

Link: https://www.tolerance.org/classroom-resources
Time: Varies between lessons and learning plans
Cost: No cost

Washington Education Association: Professional Development Network- Closing the Achievement and Opportunity Gap Workshops
Supporting members who advocate and strive to "close the achievement gap" for culturally, linguistically, and economically diverse students is a key priority of the WEA and NEA. In addition to working to shape policies and secure funds, we believe the
learner belongs at the center of the change effort and that we should promote the strengths of students in struggling schools.

You have several options to pursue professional development related to closing the achievement and opportunity gaps.

**Link:** [https://www.washingtonea.org/pd/closing-gaps/](https://www.washingtonea.org/pd/closing-gaps/)

**Time:** Varies depending on training

**Cost:** No cost

**Contact:** Ben Ibale at mibilale@washingtonea.org

**Note:** Many trainings available to teachers, all on slightly different topics around closing opportunity gaps for students.
Grant Opportunities for Teachers

Private & Corporate Foundation Grants

3M Community Giving Program/3M Foundation  
https://www.3m.com/3M/en_US/gives-us/  
The foundation gives in areas of company operations. In WA: Seattle 6701 6th Ave. S. Seattle, WA 98108  
Check the website above for current guidelines and application procedures.

Aerojet Rocketdyne Foundation  
https://www.aerojetrocketdyne.com/foundation/  
The Aerojet Rocketdyne Foundation does not accept paper Letters of Inquiry (LOI) or Grant Proposals. Grant proposals will be accepted online by invitation only.

Bank of America Charitable Foundation, Inc.  
http://www.bankofamerica.com/foundation/  

Bezos Family Foundation  
http://www.bezosfamilyfoundation.org/  
Located on Mercer Island, the foundation supports private colleges, universities, and nonprofit education organizations nationally. The foundation’s purpose is to support children and youth as well as sports and recreation. Supports reading programs, capital, programs, general operating, and scholarships.

Boeing Company  
Northwest guidelines:  
http://www.boeing.com/principles/community-engagement.page#/seeking-support  
Community investments for the region.

Cathay Bank Foundation  
https://www.cathaybank.com/cathay-foundation/  
Focus on low to moderate income individuals. No unsolicited requests will be accepted. All nonprofit organizations wishing to apply for a grant through the Cathay Bank Foundation must be invited by a Cathay Bank or Foundation Officer. The Cathay Bank or Foundation Officer will then direct your nonprofit organization to the link to submit a Letter of Intent (LOI).

Dimmer Family Foundation  
http://dimmerfoundation.org/
Grants provided to more than 100 charitable organizations annually. Funds some schools and universities in Tacoma, Seattle and Lakewood, WA; mostly small grants (under $5,000).

Bill & Melinda Gates Foundation
http://www.gatesfoundation.org
Funds education extensively. A current focus is college-ready education http://www.gatesfoundation.org/college-ready-education/Pages/default.aspx. Check website for current funding opportunities.

Elizabeth A Lynn Foundation
http://elizabethalynnfoundation.org/
Funds Catholic schools, and higher education. Interested in helping the disabled.

Charlotte Y. Martin Charitable Foundation
http://www.charlottemartin.org/
Funds educational programs in and out of the classroom, aims to help underserved populations achieve success. Funds public and private schools, focus on rural schools.

The Medina Foundation
http://www.medinafoundation.org
The foundation's purpose is to aid in improving the human condition in the greater Puget Sound community by fostering positive change, growth, and the improvement of people. Funds many private schools and nonprofit education organizations.

JPMorgan Chase Foundation
https://www.jpmorgan.com/solutions/private-banking/online_grant_application
(Scroll down page to find education focus area). Only funds 501(c) (3) organizations; no private schools or higher education. Funds public schools working in partnership with a 501(c) (3) organization. Funds statewide in Washington. Submit online application at:
http://www.cybergrants.com/pls/cybergrants/ao_login.login?x_gm_id=2608&x_proposal_type_id=10400

Nesholm Family Foundation
http://nesholmfamilyfoundation.org/NesholmFoundation/Home.html
Funds human services, education, and the performing arts in the city of Seattle, and occasionally, in other parts of King’s County. Its aim is to develop human potential, enhance quality of life, deal with important community issues and problems, affect significant numbers of people, encourage the involvement of others and leverage foundation assets to increase a project’s long-term impact. Request an application by emailing: grants@nesholmfoundation.org. Strong supporter of the Alliance for Education ($250,000 in 2011 for the Middle School initiative). Funds Seattle public schools, and individual schools.
The Norcliffe Foundation
http://www.thenorcliffefoundation.com
Funds K-12 and higher education. Primarily supports capital projects. Some new project and scholarship support also available.

Paul G. Allen Family Foundation
http://www.pgafoundations.com/
Does not accept unsolicited proposals. Beginning in 2012, the foundation will partner with public schools and districts in Washington State and Oregon to implement sustainable, research-based improvements that lead to measurable improvements in student achievement. The foundation supports projects at the school and district level that integrate rigorous academics, real-world learning, direct impact on student achievement, and community engagement. Check with your school or district for existing partnerships.

Stuart Foundation
http://www.stuartfoundation.org
Funds colleges and universities, school districts, and nonprofit organizations in California and Washington State.

Subaru of America Foundation
Makes partnership grants to Seattle nonprofit organizations. Interested in youth development and education.

Target
https://corporate.target.com/corporate-responsibility/grants
Funds educational field trips for K-12 schools and environmental stewardship investments.

Washington STEM
http://www.washingtonstem.org/
Funds innovative education programs across Washington State.

Community Foundations

King County
WaterWorks provides funding for projects that improve water quality in the service area for King County's regional wastewater system. This grant program complements the water quality mission of the Wastewater Treatment Division. In addition to the WaterWorks competitive grants, water quality project funding is available through King County Council allocated funding.
Approximately $2 million are awarded every two years for organizations carrying out a variety of projects. Non-profits, schools and educational institutions, cities, counties, tribes, and special purpose districts are eligible to apply, and partnerships are encouraged.

Renton Community Foundation
http://www.rentonfoundation.org/
Serves the greater Renton area. All grants are donor advised. Scholarships are available.

The Seattle Foundation
http://www.seattlefoundation.org
Serves King County. Provides a variety of community-based grants.

Highline Schools Foundation
http://www.highlineschoolsfoundation.org/grants/
For 15 years, Highline Schools Foundation has awarded grants directly to pre-K through 12th grade educators (including teachers, counselors, librarians, and other staff) throughout all Highline Public Schools to support innovative teaching and learning. The foundation acts as a bridge between need and opportunity in many ways – through college scholarships, college campus field trips, sports participation fees, band and orchestra instruments, and backpacks and school supplies; but one of the most impactful ways the foundation supports students is with grants.
The goal of the Excel Grant program is to fund innovative ideas and programs that school budgets can’t provide. We strive to support activities and experiences that expand the learning process and actively engage students.
The foundation’s Impact Grant awards $10,000 to one school or program in the district for an opportunity that aligns with the Highline Public Schools strategic plan in a way that impacts a large number of students.

The Issaquah Schools Foundation
http://isfdn.org/our-purpose/advancing-academic-achievement/classroom-enrichment-grants/
The Issaquah Schools Foundation recognizes that school budgets are limited and classroom demands are high. Each year, the foundation awards Classroom Enrichment Grants to enhance the learning environment of individual classrooms, libraries, computer labs, resource centers and schools. Grants in this program are funded up to $1,000.

KidsGardening.org Grants
https://kidsgardening.org/garden-grants/
KidsGardening.org has a variety of grants to apply for. Check their website for the current grants available.

Kent Community Foundation
http://www.kentcommunityfoundation.org/
Provides community group and school grants.
Snoqualmie Valley Schools Foundation
Provides community support for schools to fund meaningful and essential programs in the Snoqualmie Valley.
Professional Development for Teachers

Click the links below for a list of fluctuating professional development and adult courses available for teachers.

School-Based Supports (Free)

OSPI Climetime is funding school-based supports for teachers with planning and assistance in incorporating local phenomena, field experiences, and community assets into their curriculum. Teacher teams are encouraged (but not required) to sign up. Support can include one or more of the below.
Two-Hour Teacher Planning Session at your School
Online Video Chat
Online or In-Person Collaboration
Assistance Delivering Field-Based Lesson
https://islandwood.org/brightwater-center/teacher-professional-development

Pacific Education Institute:
PEI welcomes participation in their expert-designed, Next Generation Science Standards aligned, experiential workshops and institutes. They aim to increase educators’ knowledge, skills, and confidence in taking students outdoors to learn locally relevant, real-world science that is connected to careers in environmental science, natural resources, and agriculture sectors.
https://pacificeducationinstitute.org/work/#catalog

Project WET:
Workshops to understand the Project WET Curriculum.
http://www.projectwet.org/teach-and-learn

Seattle Aquarium:
Field guides, resources, and general information.
http://www.seattleaquarium.org/teacher-resources

Seattle Public Schools:
The School and Community Partnerships Department is committed to offering supports that build the capacity of community based organizations and schools to align their work and effectively and authentically partner.
Guided by our Professional Development Advisory Committee, which includes community based organizations, the City of Seattle, Seattle Public Schools (SPS), and feedback from partners and 2020-2021 attendees, we are excited to unveil our 2021-2022 professional learning opportunities. Some opportunities are designed only for community-based organization staff and volunteers, while others are open to both to school staff and partners.
The first two pages provide an overview, and the subsequent pages have full details, including location, timing, and registration links.

https://www.seattleschools.org/departments/community-partnerships/professional-development-for-education-partners/

Snohomish County Public Utility District PUD:
Teacher workshops are offered throughout the year for educators in the PUD’s service area. All classes are offered with clock hours (some offer college credit) and are aligned with Washington State’s *Grade Level Expectations*.

https://www.snopud.com/community-environment/in-our-communities/education/

Woodland Park Zoo:
Courses are open to all educators and other professionals. These courses are presented as part of the Advanced Inquiry Program Master’s degree (AIP). Students enrolled in AIP or other students taking the courses for credit will be given priority enrollment. If there is space in the course, Washington state-approved clock hours will be available to those participants not taking the course for credit. The courses are held at Woodland Park Zoo (unless otherwise noted) and include presentations by guest speakers, tours of zoo grounds, group discussions and hands-on activities.

https://www.zoo.org/aip/courses#.We_mSDBGzIU