

OLYWATER Schools Program

5TH GRADE OPTIONS & GOALS

2007/2008



Presentation and Field Trip

Presentation: "Water, Land, and People" 1.5 hours

In this hands-on presentation students apply their knowledge about landforms to figure out how water and people have changed Budd Inlet over time. Using stream trays and sand from the Landform FOSS kit, as well as a cut-out model of the historical Olympia shoreline, students problem-solve the same issues Olympians encountered in the twentieth century.

By dredging and filling, students reshape downtown Olympia, the Port, and create Capitol Lake. The presentation also serves as context for the proceeding field trip

that guides students towards understanding how human decisions throughout history have impacted the health of Budd Inlet.

Field Trip Options: Downtown Olympia or Priest Point Park (pick one) 2 hours

The field trip follows within a few days of the presentation:

- *Downtown Olympia:* On foot and by bus, students trek with GPS units from Sylvester Park along the historic shoreline, over the "piped" Moxlie Creek, and out to the Port to explore how people have changed the land and impacted the water. Guided by paintings from Lynn Erikson's curriculum, "Sylvester's Window" (which portray changes in Olympia between 1841 and 2001) as well as other hands-on clues, students work together to answer a series of questions to deepen their understanding about the interplay of human action and Budd Inlet's health.
- *Priest Point Park/Downtown:* After a brief stop downtown to experience how people have changed the land and impacted water, students head out to Priest Point Park to compare and contrast urban and natural shorelines. Students are given time to explore shoreline habitat and wildlife.

Salmon Field Trip to McLane Creek 2 hours

On this field trip students have an opportunity to experience wild Chum salmon spawning in healthy stream habitat. Students learn about the final stages of the salmon lifecycle first hand and explore the importance of wetland, stream, and riparian habitat to salmon survival. Field trip dates are based on Chum salmon spawning in late November through early December. A 75-minute interactive presentation follows the field trip.

Tree Planting/Maintenance Action Project 1-1.5 hours

Students take action by planting, weeding, and mulching native trees and plants that play important roles in preventing flooding and erosion, providing habitat for wildlife, and improving water quality. Tree planting sites include Black Lake Meadows, Mission Creek, and Indian Creek (and more may be added). We can accommodate up to three classes at a time. Includes a 30-minute presentation prior to the field trip.



Storm Drain Stenciling Action Project 1 hour

With supplies and support from OLYWATER Program staff, students take action by marking or stenciling storm drains at the school or in a nearby neighborhood.

Ivy Pull Action Project 1 hour

For this action project, students pull ivy at a local park or site to enhance and improve forest and riparian habitat.

OLYWATER Presentation Overview - 5th Grade

Program Goals	<ul style="list-style-type: none"> To increase <i>knowledge</i> about the City of Olympia’s storm and surface water. To provide education and training opportunities that improve students’ <i>skills</i> necessary for the protection and enhancement of local water resources and associated habitats. To <i>motivate</i> students, teachers, and families to change behaviors that adversely affect water and habitat quality within local watersheds.
Key Concepts	<ul style="list-style-type: none"> A watershed is an area that drains to a common waterway, such as a stream or the Puget Sound. Water in both solid and liquid states plays a major role in shaping landforms. Water plays a key role in Olympia’s commercial and cultural history. Landforms affect how water moves in a watershed, and the health of the watershed is affected by how people use natural resources and manage stormwater. As the human population in Olympia continues to grow we need to make decisions and changes to protect our water resources.
Science GLEs	<p>1.3.4 Understand processes that change the surface of the Earth.</p> <p>2.1.1 Understand how to ask a question about objects, organisms, and events in the environment.</p> <p>2.1.2 Understand how to plan and conduct simple investigations following all safety rules.</p> <p>2.1.3 Understand how to use simple models to represent objects, events, systems, and processes.</p> <p>3.1.1 Understand problems found in ordinary situations in which scientific design can be or has been used to design solutions.</p> <p>3.2.4 Understand how humans depend on the natural environment and can cause changes in the environment that affect humans’ abilities to survive.</p>
FOSS Kit Alignment (Please teach the following investigations prior to the classroom presentation.)	<p><u>Investigation 2</u>: Stream Tables; Parts 1 and 2 (<i>Erosion and Deposition</i>)</p> <p><u>Investigation 3</u>: Go With the Flow; Part 3 (<i>Designing an Investigation</i>)</p>

For more information, contact:

Danielle Harrington, Program Specialist
 (360) 753-8563
 dharring@ci.olympia.wa.us
 TTY (360) 753-8270



The City of Olympia is committed to the non-discriminatory treatment of all persons in the employment and the delivery of services and resources.

June 2007