



Course List for 2009 - 2010

Email: Nicole at kilnic17@aol.com

Or Call: 206-274-9524

Water Heroes: Classroom Presentation & Field Study Investigation

This program introduces students to the watershed system. The 1.5 hour classroom presentation uses an interactive PowerPoint presentation and group game to discover components of a healthy watershed and water cycle. The 1.5 hour field study investigation takes students to a local water feature such as Walker Creek or Angle Lake to test the quality of the water and identify living and non-living elements present.

Teachers will choose from three focus areas:

- 1: *"What Is A Watershed?"*- Explore the concept of a watershed; identify your local watershed and examine indicators of watershed health. (Grades K-2)
 - 2: *"Where Is Your Water Going?"*- Examine the difference between a sewer and storm drain; identify street run-off, sustainable uses of a watershed, and examples of watershed restoration. (Grades 2-5)
 - 3: *"From the Mountains to the Sound!"*- Follow the journey of a salmon; identify biotic relationships in your local watershed and illustrate the importance of watershed stewardship practices. (Grades 6-12)
- All three focus areas can be offered as a classroom only session.*

Grades: K-12. *Cost: \$75 for the 1.5 hour classroom presentation and \$150 for the 1.5 hour field study.

Digging up Dirt – A Field Investigation Using the Scientific Method: Three Classroom Sessions

There are three 1 hour classroom/field investigation sessions. Students will use the scientific method to collect, measure, and analyze soil samples from two different school ground locations.

- *Session One:* An overview of the steps involved in planning a field investigation: Forming a hypothesis, Materials, Procedures, Data Collection, and Conclusion.
- *Session Two:* The data collection phase in which transect lines are used to collect soil from two different locations on the school grounds and tools are used to measure the results.
- *Session Three:* Students will graph and analyze their data to accept or reject the hypothesis. Students will draw conclusions and recognize variables. Students will connect this information to environmental issues and stewardship practices.

Grades: 4-8. *Cost: \$200 for three 1 hour classroom/field study sessions.

Exploring Intertidal Puget Sound: Classroom Presentation & Field Study (offered in the spring)

This program introduces students to the local Puget Sound beach habitat and the organisms that live there. Beach etiquette and stewardship are stressed! The classroom presentation includes a PowerPoint presentation and a focus specific field guide activity. The field study will be performed at Seahurst Beach.

Teachers will choose from four possible focus areas:

- 1: *"Who Am I?"*- Identification of Marine Invertebrates (Grades K-2)
- 2: *"Who's My Neighbor?"*- Intertidal Zones (Grades 3-4)
- 3: *"Who's My Dinner?"*- Predators and Prey of Marine Invertebrates (Grades 4-6)
- 4: *"Who's My Relative?"*- Organization of Marine Invertebrates by Phylum (Grades 7-12)

All four focus areas can be delivered as a classroom only session.

Grades: K-12. *Cost: \$50 for the 1 hour classroom presentation and \$150 for the 1.5 hour field study.



It's a Jungle Out There: Classroom Presentation & Activity

Discover the importance of eelgrass beds found in the Puget Sound in this 1.5 hour classroom presentation. After discussing why and how marine organisms use these underwater meadow-like habitats, students will construct models of eelgrass beds. Students will then identify ways to protect this fragile environment.

Grades: 2-6. *Cost: \$75 for the 1.5 hour classroom presentation.

Salmon and You: Classroom Presentation & Field Study Investigation (offered in the fall)

This program explores the lifecycle of salmon, provides hands-on experience with internal/external fish anatomy, identifies salmon habitat needs and limiting factors, and analyzes water quality. The 1 hour classroom presentation and 3 hour field study help students determine their local stream or rivers suitability for salmon as they investigate the health of the Walker/Miller Creek Watershed or Duwamish/Green River Watershed. Students also discover their impact on salmon habitat. The field study includes a large motor skills game. This program can be offered as a classroom only session.

Grades: 4-8. *Cost: \$50 for the 1 hour classroom presentation and \$200 for the 3 hour field study.

Your Neighborhood Wilderness: Classroom Presentation & Field Study Investigation

This program introduces students to their local backyard ecosystems. The 1 hour classroom presentation incorporates a PowerPoint presentation and scavenger hunt. The 1.5 hour field study will be performed at Seahurst Park's 169 acres of woodland trails.

Teachers will choose from three possible focus areas:

- 1: "Who's Bugging You?"- Terrestrial Invertebrate Identification (Grades K-2)
- 2: "What's Under Your Feet?"- Soil and Plants (Grades 2-5)
- 3: "What's Above Your Head?"- Birds and Biodiversity (Grades 6-12)

All three focus areas can be offered as a classroom only session and can include exploration of the schoolyard for the field study component.

Grades: K-12. *Cost: \$50 for the 1 hour classroom presentation and \$150 for the 1.5 hour field study.

To sign up for the course offerings, E-mail Nicole at: kilnic17@aol.com

For schools with > 50% of the student population on free or reduced lunch, please inquire about our program cost fee waiver.

ESC strives for a ratio of 1 instructor for every 12 students in the field in order to provide high quality instruction and personal attention for every student as well as to meet teachers' requests for specific curriculum emphasis.

Programs are aligned with 2009 Washington State Essential Academic Learning Requirements, Science Standards, and Environmental Education Standards. ESC staff will work with teachers to modify programs to fit their curriculum needs.

Please visit our website for additional information at: www.EnvScienceCenter.org

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