

Mountains to Sound Greenway Trust
Environmental Education Program, “Seeking Solutions to Sustain Forests”
Alignment with Washington State Essential Academic Learning Requirements

Greenway Curriculum	Description -- In-class	Description – Field Trip	Grade Level	Essential Learnings
Forests and Fins	How do healthy forests provide critical salmon spawning and rearing habitats? Students complete a mock stream survey exercise in which they investigate the various components of a healthy forest stream.	During a forest interpretive walk, students consider the importance of lake and stream riparian habitat to the overall health of a forest. Later, students complete a stream survey on a small creek to determine its health.	5 - 8	<u>Science</u> 1.1,1.2, 1.3, 2.1,3.1 <u>SS-geography</u> 2.1,2.2,2.3, 3.1 <u>SS-economics</u> 1.1, 2.1, 3.1 <u>Reading</u> 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 3.1, 3.2 <u>Communication</u> 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 2.4, 2.5, 3.1, 3.2, 3.3
Forests on the Edge	Students engage in a role-playing activity in which they explore the diverse values and demands placed on King county forestlands (such as wildlife habitat, air and water quality, recreation, timber harvesting and development).	After a forest exploration walk, students complete a forest transect study and decide which land uses are most appropriate for Tiger Mountain State Forest.	5 - 8	<u>Science</u> 1.2, 2.1, 3.1 <u>SS-geography</u> 1.1, 2.2, 3.1, 3.2 <u>SS-economics</u> 1.1, 1.2, 1.3 <u>Reading</u> 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 3.1, 3.2, <u>Communication</u> 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 2.4, 2.5, 3.1, 3.2, 3.3

Savvy about Soil, Wise about Water	The relationship between soil and water is explored through a hands-on experiment. Samples of different soil textures (clay, sand, loam and biosolids) are provided for the students to measure the water flow and pH.	Students examine multiple soil samples on a mile long walk. Small teams use soil augers to gather and evaluate the soil for texture, fertility (potassium, nitrogen, phosphorus) and pH. Students begin to understand how soil textures help determine the use of the land.	5 - 8	<u>Science</u> 1.1, 1.2, 1.3, 2.1, 2.2, 3.1 <u>SS-geography</u> 2.1, 3.1 <u>SS-economics</u> 1.1, 2.1, 3.1 <u>Reading</u> 1.1, 1.2, 2.1, 2.2, 2.3, 3.1, 3.2, <u>Communication</u> 1.1,1.2, 1.3, 2.1, 2.2, 2.3, 2.4, 2.5, 3.1, 3.2, 3.3
Greening Up the Greenway	How can King county forest soils be improved while addressing a regional environmental problem? Students examine the science, economic and health issues of recycling biosolids on forested land and compare it to another common fertilizer to promote tree growth.	After a forest exploration walk, students complete a forest transect study in which they decide whether biosolids should be applied to Tiger Mountain State Forests to increase tree growth.	5 - 10	<u>Science</u> 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 3.1, 3.2 <u>SS-geography</u> 2.2, 3.1, 3.2 <u>SS-economics</u> 1.1, 2.1, 3.1 <u>Reading</u> 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 3.1, 3.2, <u>Communication</u> 1.1, 1.2, 1.2, 2.1, 2.2, 2.3, 2.4, 2.5, 3.1, 3.2, 3.3

Revised 1/06



Mountains to Sound Greenway Trust Education Program – “Seeking Solutions to Sustain Forests”

911 Western Avenue, Suite 523

Seattle, WA 98104

(206) 382-5565

www.mtsgreenway.org

The Mountains to Sound Greenway – Linking Forests, Trails, Wildlife and History along Interstate 90 in Washington State