

Module	Science Investigation	Resulting Possible Stewardship Action/Project
Water Canaries	<ul style="list-style-type: none"> <li>● Students will collect benthic macroinvertebrates (macros) from streams with nets and classify and identify them using a dichotomous key.</li> <li>● Using macros as water quality indicators, students will determine stream health.</li> </ul>	<ul style="list-style-type: none"> <li>● Determining stream health serves to engage students in further investigating issues associated with water quality.</li> <li>● Students may join a local stream monitoring group to examine the health of streams in their own community.</li> <li>● Field study may increase awareness of the need for individual action.</li> </ul>
Plant Invaders	<ul style="list-style-type: none"> <li>● Using a dichotomous key (decision tree) for plant identification, students will identify and quantify the percentage of non-native invasive plant species present in a national park.</li> </ul>	<ul style="list-style-type: none"> <li>● Students may engage in a service project such as volunteer removal of invasive plants from area national parks.</li> </ul>
Talkin' Trash	<ul style="list-style-type: none"> <li>● Students will investigate the impact of litter on a stream.</li> <li>● Students will collect, sort, and weigh all trash they have collected as a group.</li> <li>● Students will compute the percentage of recyclables by weight and volume</li> </ul>	<ul style="list-style-type: none"> <li>● Students may make inferences about lifestyle and consumer choices, and how these choices have lasting impact on their watershed.</li> <li>● Students may consider ways to address trash problems both school-wide and through personal action.</li> <li>● Students may explore best management practices for reducing and eliminating litter.</li> <li>● Students may create a trash free school plan.</li> </ul>

<p>Watershed Watchdogs</p>	<ul style="list-style-type: none"> <li>● Students will determine a Water Quality Index of a stream using nine physical or chemical parameters.</li> </ul>	<ul style="list-style-type: none"> <li>● Determining stream health serves to engage students in further investigating issues associated with water quality.</li> <li>● Students may join a local stream monitoring group to examine the health of streams in their own community.</li> </ul>
<p>Don't Get Sedimental</p>	<ul style="list-style-type: none"> <li>● Students will examine the impact of land use on streams and will explore the sources of sediment.</li> <li>● Students will determine a stream's habitat rating based upon abiotic, biotic, and cultural factors.</li> </ul>	<ul style="list-style-type: none"> <li>● Determining stream health serves to engage students in further investigating issues associated with water quality.</li> <li>● Students may join a local stream monitoring group to examine the health of streams in their own community.</li> </ul>
<p>Sustainability</p>	<ul style="list-style-type: none"> <li>● Students will explore renewable energy devices such as wind turbines and solar panels.</li> <li>● Students will assess sustainability efforts for categories of waste, water, energy, and transportation</li> </ul>	<ul style="list-style-type: none"> <li>● Students will consider ways to be more sustainable both school-wide and through personal action.</li> </ul>