

Activities at a glance

Activity	Location	Description	Materials
Pre-activity (Macroinvertebrate Mayhem)	In class (whole class participated)	<p>At the end of the activity, students will understand what macroinvertebrates are and be able to identify them. The activity prepares them to look for aquatic indicators when they go to the stream.</p> <p>In this activity, students role play the different macroinvertebrate that would be found in the stream with their special adaptations. They will play out how stressors affect these organisms.</p>	<p>Macroinvertebrate game cards (from project wild; see Internet Resources)</p> <p>Chart paper</p>
Guided Stream Study (presented by the naturalist at the wilderness center)	Nature Center (after school)	<p>Students conducted macroinvertebrate count and identification with the guidance of the naturalists.</p> <p>They also tested the chemistry of the stream (pH, phosphates, nitrates, temperature, dissolved oxygen)</p> <p>Leaf pack study</p>	<p>Nets (seine net, dip nets);</p> <p>Leaf Pack Network identification cards (see Internet Resources)</p> <p>Lamott Monitor's handbook (see Internet Resources)</p>
Application of Stream Study	School Stream (after school)	<p>Students took what they learned in the nature center to their local school backyard:</p> <p>Macroinvertebrate count and identification</p> <p>Testing chemistry of stream (pH,</p>	<p>Materials provided by the county soil and water district;</p> <p>Water chemistry kits can be purchased from science vendors</p>

		phosphates, nitrates, temperature, dissolved oxygen) Leaf pack study	(see Internet Resources)
Presentation of learning	In class	Students presented their findings to the rest of the class. This enabled everyone who did not participate in club activities to learn what their peers are investigating.	
Extension: Flooding study and vernal ponds	After school	Students identified flooding as a pressing issue. Teacher and students are setting up vernal ponds to reestablish native watersheds to prevent flooding. The students are practicing at the wilderness center, and will eventually build one at the school.	Shovels Land Survey materials (topographical map of the watershed area available on Google Maps or through local agencies) Soil Corer