

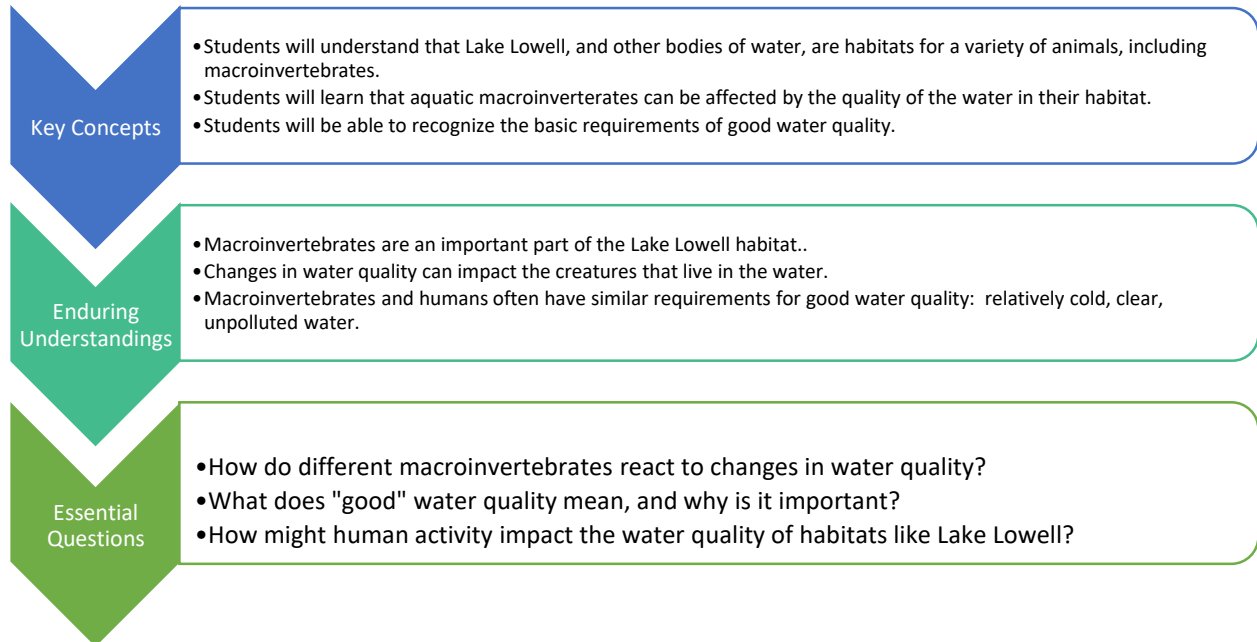
**Lesson Plan: Macroinvertebrate Sampling  
Field Trip Program: Exploring Lake Lowell  
Location: Lake Lowell Park**

**Intended Grade(s):** 2nd & 3rd  
**Overview and Purpose:**

Idaho State Standards
<ul style="list-style-type: none"> <li>• 2.S.3.2.1. Identify four basic needs of all living things (food, shelter, water, space).</li> <li>• 2.S.3.2.2. Discuss how animals are suited to live in different habitats.</li> <li>• 2.S.1.6.2-4. Make observations, analyze information and evidence; communicate observations.</li> <li>• 3.S.3.1.1. Describe the adaptations of plants and animals to their environment.</li> <li>• 3.S.5.1.1. Identify local environmental issues.</li> </ul>

Common Core State Standards
<ul style="list-style-type: none"> <li>• CCSS.ELA-LITERACY.SL.2.1. Ask for clarification and further explanation as needed about the topics under discussion.</li> <li>• CSS.ELA-LITERACY.SL.2.2. Recount or describe key ideas or details from information presented orally or through other media.</li> <li>• CSS.ELA-LITERACY.SL.2.3. Ask and answer questions about what a speaker says in order to clarify comprehension, gather additional information, or deepen understanding of a topic or issue.</li> <li>• CSS.ELA-LITERACY.SL.3.1.C. Ask questions to check understanding of information presented, stay on topic, and link their comments to the remarks of others.</li> <li>• CSS.ELA-LITERACY.SL.3.1.D. Explain their own ideas and understanding in light of the discussion.</li> <li>• CSS.ELA.LITERACY.SL.3.3. Ask and answer questions about information from a speaker, offering appropriate elaboration and detail.</li> </ul>

Next Generation Science Standards
<ul style="list-style-type: none"> <li>• 2-LS2-1. Make observations to collect data which can be used to make comparisons.</li> <li>• 2-LS4-1. There are many different kinds of living things in any area, and they exist in different places on land and in water.</li> <li>• 3-LS4-4. When the environment changes in ways that affect a place's physical characteristics, temperature, or availability of resources, some organisms survive and reproduce, others move to new locations, yet others move into the transformed environment, and some die.</li> <li>• 3-LS4-1. For any particular environment, some kinds of organisms survive well, some survive less well, and some cannot survive at all.</li> <li>• 3-LS4-4. Populations live in a variety of habitats, and change in those habitats affects the organisms living there.</li> </ul>



**Critical Vocabulary:** These are terms that students should hear during the lesson. Interpretive specialists should review lesson plans and vocabulary before delivering a program, to make sure that they are able to interpret/explain these words and concepts.

<b>Habitat</b>	<b>Macroinvertebrate</b>	<b>Nymph</b>	<b>Predators</b>
<b>Prey</b>	<b>Trout</b>	<b>Mayfly</b>	<b>Dragonfly</b>
<b>Leech</b>	<b>Parasite</b>	<b>Moult</b>	<b>Water quality</b>
<b>Pollution</b>	<b>Sensitive</b>	<b>Tolerant</b>	<b>Moderately tolerant</b>