



Charters Valley High School  
Lesson Plans  
Week of 3/29/05



Special Education Grades 9-12

Instructor: Mrs. Zieger	Course: Environmental Science Period # 1
Objective(s): The Students will...	Build a model of an aquatic ecosystem and predict how the habitat will meet the organisms needs.
Related Curriculum Standard:	4.5.10 Explain the biotic and abiotic components of an ecosystem and their interactions.
Activities/Procedures:	Monday - - In this lab, the students will put guppies, snails and plants together in a sealed jar of water. - Students will then record their predictions about whether this habitat will meet the needs of these organisms - Observe the jar every day, record your observations in your notebook - including the presence of algae - Students will then draw a diagram of the interactions between the biotic and abiotic factors in the jar.

	<p>Conclude the lesson with a discussion of the River ecosystem here in Pittsburgh.</p> <p>Materials for the lesson:</p> <ul style="list-style-type: none"> <li>- Aquarium</li> <li>- Gravel</li> <li>- Plastic Rod</li> <li>- 2 day old tap water</li> <li>- 2 guppies</li> <li>- large jar w/ cover</li> <li>- Lamp w/ 60 watt bulb</li> <li>- metric ruler</li> <li>- Dip net</li> <li>- 2 Aquatic plants - 2 small POND SNAILS</li> </ul>
<p>Materials(resources):</p>	<ul style="list-style-type: none"> <li>• Science textbook</li> <li>• Science notebook</li> <li>• Science folder/portfolio</li> <li>• Science work packet</li> <li>• Science World Magazine</li> <li>• Writing Utensil (student owned)</li> <li>• Internet</li> <li>• CV Library</li> <li>• AIT video library</li> <li>• Teacher-made materials &amp; resources</li> </ul>
<p>Assessment:</p>	<ul style="list-style-type: none"> <li>• Teacher Observation</li> <li>• Weekly notebook &amp; packet checks</li> <li>• Participation rubric checklist</li> <li>• Quiz -</li> <li>• Test -</li> <li>• Project -</li> </ul>
<p>Homework:</p>	<p>Complete diagram</p>

This idea was prompted by an activity in  
 the Science Explorer: Prentice  
 Hall  
 2002