

## Learning-Focused Lesson Plan

Name: Amy Baggett, PhD

Topic: Ecology

<p><b>Learning Goals for this Lesson</b>  <b>Students Will Know:</b></p> <ul style="list-style-type: none"> <li>• How to classify organisms according to their role in the food chain or food web.</li> <li>• How to interpret how materials and energy are transferred through an ecosystem.</li> </ul>	<p><b>Standards:</b></p> <ul style="list-style-type: none"> <li>• SPI 0607.2.1 Classify organisms as producers, consumers, scavengers, or decomposers according to their role in a food chain or food web.</li> <li>• SPI 0607.2.2 Interpret how materials and energy are transferred through an ecosystem.</li> </ul> <p><b>Students Will Be Able To:</b></p> <ul style="list-style-type: none"> <li>• Classify organisms according to their role in the food chain or web.</li> <li>• Interpret how materials and energy are transferred through an ecosystem.</li> </ul>
<p><b>Lesson Essential Question</b>          How can you determine the value of each organism in a food chain through the distribution of energy?</p>	
<p><b>Activating Strategy : Oakley STEM Center Ecology Food Web Game</b></p>	
<p><b>Key vocabulary to preview and vocabulary strategy: abiotic, biome, biosphere, biotic, cause and effect, climate change, scavengers.</b></p>	
<p><b>Lesson instruction</b></p>	
<p><b>Learning Activity 1 – (Two days) K-W-L chart on food chains / web; cut and paste with review discussion</b></p> <p><b>Assessment Prompt for LA 1</b>          Completed K-W-L</p>	<p><b>Graphic Organizer</b></p> <p>K-W-L chart; food web cut and paste; pyramid classification chart</p>
<p><b>Learning Activity 2 –(One day) Pyramid classification chart (coloring and labeling)</b></p> <p><b>Assessment Prompt for LA 2: Correctly Completed pyramid</b></p>	
<p><b>Learning Activity 3 – (Three days) Energy transfer:</b></p> <ol style="list-style-type: none"> <li>1) Rule 10, with pyramid in journal</li> <li>2) PowerPoint with energy transfer notes</li> <li>3) Loss of a level and the consequences</li> </ol> <p><b>Assessment Prompt for LA 3</b>          Exit ticket: Energy transfer scenario</p>	<p><b>Assignment:</b>          Create a food web to demonstrate the transfer of energy through each organism. Use magazines, computers, hand-drawn pictures, etc...</p>
<p><b>Summarizing Strategy Ecology Summarizing Acrostic</b></p>	