

**LESSON PLAN 4: STREAM FOOD WEBS**

**MIDDLE SCHOOL STANDARDS ADDRESSED:**

Tennessee	<p><b>6.LS2: Ecosystems: Interactions, Energy, and Dynamics</b></p> <ol style="list-style-type: none"><li>1. Evaluate and communicate the impact of environmental variables on population size.</li><li>2. Determine the impact of competitive, symbiotic, and predatory interactions in an ecosystem.</li><li>3. Draw conclusions about the transfer of energy through a food web and energy pyramid in an ecosystem.</li><li>6. Research the ways in which an ecosystem has changed over time in response to changes in physical conditions, population balances, human interactions, and natural catastrophes.</li><li>7. Compare and contrast auditory and visual methods of communication among organisms in relation to survival strategies of a population.</li></ol> <p><b>7.LS2: Ecosystems: Interactions, Energy, and Dynamics</b></p> <ol style="list-style-type: none"><li>1. Develop a model to depict the cycling of matter, including carbon and oxygen, including the flow of energy among biotic and abiotic parts of an ecosystem.</li></ol>
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**HIGH SCHOOL STANDARDS ADDRESSED:**

Tennessee	<p><b>BIO1.LS2: Ecosystems: Interactions, Energy, and Dynamics</b></p> <ol style="list-style-type: none"><li>1. Analyze mathematical and/or computational representations of population data that support explanations of factors that affect population size and carrying capacities of populations within an ecosystem. Examine a representative ecosystem and, based on interdependent relationships present, predict population size effects due to a given disturbance.</li></ol>
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