

LESSON PLAN 4: STREAM FOOD WEBS

MIDDLE SCHOOL STANDARDS ADDRESSED:

Virginia	<p>LS.10: The student will investigate and understand that ecosystems, communities, populations, and organisms are dynamic, change over time, and respond to daily, seasonal, and long-term changes in their environment. Key concepts include</p> <ul style="list-style-type: none">a) phototropism, hibernation, and dormancy;b) factors that increase or decrease population size; andc) eutrophication, climate changes, and catastrophic disturbances. <p>LS.11: The student will investigate and understand the relationships between ecosystem dynamics and human activity. Key concepts include</p> <ul style="list-style-type: none">a) food production and harvest;b) change in habitat size, quality, or structure;c) change in species competition;d) population disturbances and factors that threaten or enhance species survival; ande) environmental issues.
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HIGH SCHOOL STANDARDS ADDRESSED:

Virginia	<p>BIO.8: The student will investigate and understand dynamic equilibria within populations, communities, and ecosystems. Key concepts include</p> <ul style="list-style-type: none">a) interactions within and among populations including carrying capacities, limiting factors, and growth curves;b) nutrient cycling with energy flow through ecosystems;c) succession patterns in ecosystems;d) the effects of natural events and human activities on ecosystems; ande) analysis of the flora, fauna, and microorganisms of Virginia ecosystems.
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