

Integrated Principles of Zoology



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Next Generation Science Standards Life Science Performance Expectations	Integrated Principles of Zoology, 18 th Edition, ©2020
HS-LS2 Ecosystems: Interactions, Energy, and Dynamics	
<p>1-LS2-1. Analyze a model to describe how a population of a particular species changes in response to environmental, biotic, and abiotic factors.</p>	<p>01 1</p>
<p>1-LS2-2. Analyze a model to describe the role of a particular organism in a community and how that role can change based on environmental changes and the interactions between organisms.</p>	<p>01 Review Questions, ... (# 0)</p>
<p>2-LS2-1. Analyze a model to describe the interactions between organisms and their environment. Include: matter and energy flow between organisms and their environment; interactions among organisms; and interactions between organisms and their environment.</p>	<p>0 Key Theme</p>
<p>2-LS2-2. Analyze a model to describe the role of a particular organism in a community and how that role can change based on environmental changes and the interactions between organisms.</p>	<p>0 Review Questions, ... (#1)</p>
<p>2-LS2-3. Analyze a model to describe the interactions between organisms and their environment. Include: matter and energy flow between organisms and their environment; interactions among organisms; and interactions between organisms and their environment.</p>	<p>0 Key Theme</p>
<p>3-LS2-1. Analyze a model to describe the interactions between organisms and their environment. Include: matter and energy flow between organisms and their environment; interactions among organisms; and interactions between organisms and their environment.</p>	
<p>3-LS2-2. Analyze a model to describe the role of a particular organism in a community and how that role can change based on environmental changes and the interactions between organisms.</p>	<p>7 For Further Thought, ...</p>
<p>3-LS2-3. Analyze a model to describe the interactions between organisms and their environment. Include: matter and energy flow between organisms and their environment; interactions among organisms; and interactions between organisms and their environment.</p>	<p>00 Key Theme ...1 Review Questions, ...0 (# , # , # , #11-#1)</p>

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HS-LS3 Heredity: Inheritance and Variation of Traits	
<p>1. Mendel's experiments with pea plants showed that the traits of parents and offspring are inherited in a predictable way that is described by simple mathematical rules. The first of these rules states that the two alleles for a trait separate during gamete formation. (1)</p>	<p><i>For Further Thought</i> 10 <i>Review Questions</i> 101 (#1)</p>
<p>2. The segregation of alleles for a trait occurs because of the separation of homologous chromosomes during meiosis. (1)</p>	<p><i>Key Theme</i> 1 <i>Review Questions</i> 10 (#)</p>
<p>3. The Hardy-Weinberg equilibrium equation, $p^2 + 2pq + q^2 = 1$, can be used to predict the frequency of alleles and genotypes in a population over generations. (1)</p>	<p>1 -1 <i>Hardy-Weinberg Equilibrium</i> 1 <i>Review Questions</i> 1 (#1 , #1 , #1)</p>
HS-LS4 Biological Evolution: Unity and Diversity	
<p>1. The scientific theory of evolution by natural selection explains the diversity of life on Earth. (1)</p>	<p>10 -11 , 11 -11 <i>Review Questions</i> 1 (#) <i>The Power of a Theory</i> 11</p>
<p>2. The theory of evolution by natural selection explains the diversity of life on Earth. (1)</p>	<p>1 -1 , 1 <i>Review Questions</i> 1 (#1 , #1)</p>
<p>3. The theory of evolution by natural selection explains the diversity of life on Earth. (1)</p>	<p>1 -1 , 1 -1 <i>Review Questions</i> 1 (#1 -#1)</p>

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