

## Life Science (Biomes)

Grade 7 Science      Grade 7 Science

Start Date: September 23, 2013

End Date : October 31, 2013

<p>Unit Overview Biomes</p>	<p>Content Elaborations</p> <p>Biomes are defined by abiotic components of the environment such as precipitation, solar radiation and temperature. Climate is the focus of this content statement. Examples include aquatic biomes (freshwater, brackish water and marine water), and terrestrial biomes (cold and hot), grassland, taiga and tundra. Biomes mapped by using a variety of maps, models and technology (e.g., LANDSAT).</p> <p>An ecosystem is composed of linked and fluctuating interactions between biotic and abiotic components.</p>	<p>Unit Resources</p> <ul style="list-style-type: none"> <li>- Textbook Ch. 18,19, 20, &amp; 21</li> <li>- Directed read A- entire Chapter</li> <li>- Discovery Learning Video: Elements of Biology: Biomes: The Adaptations of Organisms</li> <li>- Gizmo: Prairie Ecosystems</li> <li>- Research Project???</li> </ul>
<p>Unit Vocabulary</p> <p>Biome Abiotic Factor Biotic Factor Topography Precipitation Ecosystem Desert Deciduous Forest Taiga Grassland Tropical Rain Forest Coniferous Tree Tundra Biome</p>	<p>Enduring Understandings (Big Ideas)</p> <p>Biomes are regional ecosystems characterized by distinct types of organisms that have developed under specific soil and climatic conditions.</p>	<p>Connections</p>

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Permafrost Savannah Arctic Ocean Biodiversity Herbivore Carnivore Omnivore Predator Prey Symbiosis Mutualism Commensalism Parasitism		
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### Standards

#### OH\_Academic\_Content\_Standards - Science (2011) - Grade 7

Strand LS Life Science

Topic LS.1 This topic focuses on the impact of matter and energy transfer within the biotic component of ecosystems.

Content Statement LS.1.2 In any particular biome, the number, growth and survival of organisms and populations depend on biotic and abiotic factors.

LS.1.2.a Biomes are regional ecosystems characterized by distinct types of organisms that have developed under specific soil and climatic conditions.

LS.1.2.b The variety of physical (abiotic) conditions that exists on Earth gives rise to diverse environments (biomes) and allows for the existence of a wide variety of organisms (biodiversity).

LS.1.2.c Ecosystems are dynamic in nature; the number and types of species fluctuate over time. Disruptions, deliberate or inadvertent, to the physical (abiotic) or biological (biotic) components of an ecosystem impact the composition of an ecosystem.

Student Assessment chapter test study Island	Unit Refection
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### Biomes

Content	Skills	Assessment
A. Interactions of Living Things B. Cycles in Nature C. Earth's Ecosystems	A. Interactions of Living Things <ol style="list-style-type: none"> <li>1. Compare/Contrast Abiotic vs. Biotic Factors</li> <li>2. Describe all factors within an ecosystem</li> <li>3. Trace energy transformations between producers,</li> </ol>	

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	<p>consumers, &amp; decomposers</p> <p>4. Describe predator/prey relationships</p> <p>B. Cycles in Nature</p> <p>1. Describe the carbon cycle</p> <p>2. Describe the nitrogen cycle</p> <p>C. Earth's Ecosystems</p> <p>1. Identify the earth's biomes</p> <p>2. Identify individual characteristics within biomes</p> <p>3. Trace matter &amp; energy transformations within biomes</p>	
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