

# Biology Calendar Unit 1

**Chapter 1: The Science of Biology**

**Chapter 3: The Biosphere**

**Chapter 4: Ecosystems and Communities**

**Chapter 5: Population**

**Chapter 6: Humans in the Biosphere**

Monday, August 20	Tuesday, August 21 Wednesday, August 22	Thursday, August 23 Friday, August 24
<p>Essential Question:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> What role does science play in the study of life?</li> <li><input type="checkbox"/> What is science?</li> </ul> <p>Bellringer:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> What is Biology? (Concept Map)</li> </ul> <p>In Class:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Intro to Biology</li> <li><input type="checkbox"/> Video: What do Biologists Look Like?</li> <li><input type="checkbox"/> Powerpoint: What is Science?</li> </ul> <p>HW:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Read all handouts</li> <li><input type="checkbox"/> Get Lab Safety and Syllabus signed</li> <li><input type="checkbox"/> Buy supplies</li> <li><input type="checkbox"/> \$7.00 lab fee is due</li> <li><input type="checkbox"/> Begin reading Chapter 1</li> </ul>	<p>Essential Question:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Why is science referred to as a way of knowing?</li> <li><input type="checkbox"/> What are the goals of science?</li> </ul> <p>Bellringer:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Experimental Design Diagram</li> </ul> <p>In Class:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Powerpoint: Scientific Method</li> <li><input type="checkbox"/> How to Write Lab Report</li> <li><input type="checkbox"/> Pre-Lab: Seed Germination &amp; Competition</li> </ul> <p>HW:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Complete Pre-Lab report</li> <li><input type="checkbox"/> Read Section 3.1</li> </ul>	<p>Essential Question:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> How is a controlled experiment designed?</li> <li><input type="checkbox"/> How do different types of microscopes work?</li> </ul> <p>Bellringer:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Latin Roots: Prefixes &amp; Suffixes</li> </ul> <p>In Class:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Powerpoint: Microscopy</li> <li><input type="checkbox"/> Lab: Seed Germination &amp; Competition</li> <li><input type="checkbox"/> Activity: Microscopy</li> <li><input type="checkbox"/> Compare/Contrast Table: Types of Microscopes</li> </ul> <p>HW:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Florida Benchmark Review p.31 (1-9) * write questions &amp; answers</li> <li><input type="checkbox"/> Review for Quiz</li> <li><input type="checkbox"/> Read Section 4.4 and 4.5</li> </ul>
Monday, August 27 Tuesday, August 28	Wednesday, August 29 Thursday, August 30	Thursday, August 31 Tuesday, September 4 • Monday 9/3 NO SCHOOL
<p>Essential Question:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> How do living and nonliving parts of the Earth interact and affect the survival of organisms?</li> <li><input type="checkbox"/> What are the characteristics of the major biome?</li> <li><input type="checkbox"/> What factors affect life in aquatic ecosystems?</li> </ul> <p>Bellringer:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Biotic vs. Abiotic in Classroom</li> </ul> <p>In Class:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> TEST: Benchmark Assessment SC.912.N.1.1</li> <li><input type="checkbox"/> Powerpoint: Biomes &amp; Aquatic Systems</li> <li><input type="checkbox"/> Project: Biomes &amp; Aquatic Systems</li> </ul> <p>HW:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Read Section 4.1 and 4.2</li> </ul>	<p>Essential Question:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> How do ecosystems change over time?</li> <li><input type="checkbox"/> What factors affect global climate?</li> </ul> <p>Bellringer:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Succession</li> </ul> <p>In Class:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Powerpoint: Changes in Ecosystems</li> <li><input type="checkbox"/> Lab: Greenhouse Effect/Factors Affecting Climate</li> </ul> <p>HW:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Florida Benchmark Review p.127 (1-10) * write questions &amp; answers</li> </ul>	<p>Essential Question:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> How do organisms interact with one another?</li> </ul> <p>Bellringer:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Biology &amp; Society: What Can Be Done About Invasive Species</li> </ul> <p>In Class:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Powerpoint: Community Interactions</li> <li><input type="checkbox"/> Lab: Best Buddies</li> </ul> <p>HW:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Read Section 5.2</li> <li><input type="checkbox"/> Research &amp; Decide: Cuban Tree Frogs</li> </ul>

<b>Wednesday, September 5</b> <b>Thursday, September 6</b>	<b>Friday, September 7</b> <b>Monday, September 10</b>	<b>Tuesday, September 11</b> <b>Wednesday, September 12</b>
<p>Essential Question:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> How do populations grow?</li> <li><input type="checkbox"/> What factors contribute to changes in populations?</li> </ul> <p>Bellringer:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Happy Feet</li> </ul> <p>In Class:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Reading: Limiting Factors</li> <li><input type="checkbox"/> Lab: Oh Deer!</li> </ul> <p>HW:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Finish lab report</li> </ul>	<p>Essential Question:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> What factors limit a population's growth?</li> <li><input type="checkbox"/> How is human population growing?</li> </ul> <p>Bellringer:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing Data: "Boom &amp; Bust" Rabbit Population</li> </ul> <p>In Class:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> GIZMO: Prairie Ecosystem</li> <li><input type="checkbox"/> Powerpoint: Population &amp; Limiting Factors</li> </ul> <p>HW:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Florida Benchmark Review p.151 (1-10) * write questions &amp; answers</li> <li><input type="checkbox"/> Read Section 3.2</li> </ul>	<p>Essential Question:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> How do different organisms get the energy they need to survive?</li> <li><input type="checkbox"/> How does energy move through an ecosystem?</li> </ul> <p>Bellringer:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Anacondas &amp; Pythons in the Everglades</li> </ul> <p>In Class:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> TEST: Benchmark Assessment SC.912.L.17.5</li> <li><input type="checkbox"/> Video Clip: Florida Everglades</li> <li><input type="checkbox"/> Lab: Designing Food Chains &amp; Food Webs</li> </ul> <p>HW:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Finish lab report</li> <li><input type="checkbox"/> Read Section 3.4</li> </ul>
<b>Thursday, September 13</b> <b>Friday, September 14</b>	<b>Tuesday, September 18</b> <b>Wednesday, September 19</b>	<b>Thursday, September 20</b> <b>Friday, September 21</b>
<p>Essential Question:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Why is the cycling of matter important to life on Earth?</li> </ul> <p>Bellringer:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing Data: The 10% Rule</li> </ul> <p>In Class:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Powerpoint: Biogeochemical Cycles</li> <li><input type="checkbox"/> Project: The Cycles</li> </ul> <p>HW:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Florida Benchmark Review (p.93 1-10) * write questions &amp; answers</li> </ul>	<p>Essential Question:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> How have human activities shaped local and global ecology?</li> </ul> <p>Bellringer:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Analyzing Data: Saving the Golden Lion Tamarin</li> </ul> <p>In Class:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> TEST: Benchmark Assessment SC.912.L.17.9</li> <li><input type="checkbox"/> Powerpoint: Human Impact on Systems- Soil &amp; Urbanization</li> <li><input type="checkbox"/> Brainpop: Humans &amp; The Environment</li> </ul> <p>HW:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Read Section 6.1 and 6.2</li> </ul>	<p>Essential Question:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> How can we use our natural resources wisely?</li> <li><input type="checkbox"/> Why is it important it protect and conserve biodiversity?</li> </ul> <p>Bellringer:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> The Biodiversity Code (CLIP)</li> </ul> <p>In Class:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Activity: Biomagnification</li> <li><input type="checkbox"/> Powerpoint: Human Impact on Systems – Biodiversity &amp; Pollution</li> <li><input type="checkbox"/> FILM: The Biodiversity Code</li> </ul> <p>HW:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Read Section 6.3 and 6.4</li> </ul>
<b>Monday, September 24</b> <b>Tuesday, September 25</b>	<b>Thursday, September 26</b> <b>Friday, September 27</b>	
<p>Essential Question:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> How can we change our behaviors to help protect our planet?</li> </ul> <p>Bellringer:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Renewable Energy</li> </ul> <p>In Class:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Powerpoint: Powerpoint: Human Impact on Systems – Energy</li> <li><input type="checkbox"/> Project: Renewable vs. Nonrenewable</li> </ul> <p>HW:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Florida Benchmark Review p.93 (1-10) * write questions &amp; answers</li> </ul>	<p>Essential Question:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> How can we change our behaviors to help protect our planet?</li> </ul> <p>Bellringer:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Sustainability</li> </ul> <p>In Class:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Activity: Environmental Action</li> <li><input type="checkbox"/> FILM: The Lorax</li> </ul> <p>HW:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Florida Benchmark Review p.185 (1-10) * write questions &amp; answers</li> </ul>	

