

Biology Curriculum Map

	1 <sup>st</sup> 9 WEEKS	2 <sup>nd</sup> 9 WEEKS	3 <sup>rd</sup> 9 WEEKS	4 <sup>th</sup> 9 WEEKS
<b>Week 1</b>	<ul style="list-style-type: none"> <li>Orientation</li> <li>Safety</li> </ul>	Energy and Matter (SB 5b) <ul style="list-style-type: none"> <li>Energy pyramid</li> <li>Food chains</li> <li>Food Webs</li> </ul>	Genetics (SB 2) <ul style="list-style-type: none"> <li>DNA and RNA (SB 2a)</li> </ul>	Cells (SB 1) <ul style="list-style-type: none"> <li>Cell types (SB 1a)</li> <li>Cell Organelles (SB 1a)</li> </ul>
<b>Week 2</b>	<ul style="list-style-type: none"> <li>Scientific Method (Characteristics of Science)</li> </ul>	Energy and Matter (SB 5b) <ul style="list-style-type: none"> <li>Nutrient Cycles</li> </ul>	Nucleic Acids (SB 2b) <ul style="list-style-type: none"> <li>DNA Replication</li> <li>RNA Transcription</li> <li>Protein Synthesis</li> </ul>	Cell Transport (SB 1a, 1d) <ul style="list-style-type: none"> <li>Homeostasis (SB 1a, 1b, 1d)</li> <li>biochemistry</li> <li>water</li> <li>macromolecules</li> </ul> Biochemistry (SB 1b, 1c, 1d) <ul style="list-style-type: none"> <li>enzymes</li> </ul>
<b>Week 3</b>	Evolution (SB 6a) <ul style="list-style-type: none"> <li>Theory of Evolution (SB 6a, b)</li> <li>History of Theory</li> </ul>	Organism Interactions (SB 5c) <ul style="list-style-type: none"> <li>Adaptations</li> <li>Tropisms</li> <li>Animal Behaviors</li> </ul>	Nucleic Acids (SB 2b) <ul style="list-style-type: none"> <li>Protein Synthesis</li> </ul>	Energy Use (SB 1e) <ul style="list-style-type: none"> <li>Cellular Respiration</li> <li>Photosynthesis</li> </ul>
<b>Week 4</b>	Evolutionary Processes <ul style="list-style-type: none"> <li>Geologic History (SB 6a)</li> <li>Rates of Evolution (SB 6b)</li> </ul>	Important Ecosystems (SB 5e) <ul style="list-style-type: none"> <li>Terrestrial</li> <li>Aquatic</li> </ul>	Mutations (SB 2b) <ul style="list-style-type: none"> <li>Mutagens</li> </ul>	DNA Technology (SB 2c) <ul style="list-style-type: none"> <li>Medicine</li> <li>Forensics</li> <li>Agriculture</li> </ul>
<b>Week 5</b>	Evolutionary Processes <ul style="list-style-type: none"> <li>Evidence (SB 6d)</li> <li>Natural Selection (SB 6d)</li> </ul>	Succession (SB 5c)	Reproduction (SB 3c) <ul style="list-style-type: none"> <li>Sexual Reprod.</li> <li>Asexual Reprod</li> </ul>	EOCT Review (EOCT Review and Test Preparation are conducted throughout the year as well)
<b>Week 6</b>	Natural Selection (SB 6d) <ul style="list-style-type: none"> <li>Population</li> <li>Variation</li> <li>Adaptation</li> </ul>	Human Impact (SB 5d&e)	Types Cell Reproduction <ul style="list-style-type: none"> <li>Mitosis (SB 1b)</li> <li>Meiosis (SB 1b &amp; 2b)</li> <li>Genetic Variation (SB 2b)</li> </ul>	EOCT week

Characteristics of Science standards will be incorporated throughout the course. Also, science research days will be incorporated throughout the second semester.

Updated 7/04/2017

Biology Curriculum Map

	<ul style="list-style-type: none"> <li>• Offspring</li> </ul>		<ul style="list-style-type: none"> <li>• Important</li> </ul>	*
<b>Week 7</b>	Modern Evolution (SB 6e) <ul style="list-style-type: none"> <li>• Chemical Resistance</li> <li>• Artificial Selection</li> </ul>	Classification <ul style="list-style-type: none"> <li>• Taxonomy (SB 4a)</li> </ul>	Heredity (SB 3a) <ul style="list-style-type: none"> <li>• Mendel's Laws</li> </ul>	Plants and Animals Students will explore different phyla and complete research and lab activities.
<b>Week 8</b>	Ecology (SB 5a) <ul style="list-style-type: none"> <li>• Ecosystems Organization</li> <li>• Ecosystems Interdependence</li> </ul>	6 kingdoms (SB 4a)	Heredity (SB 3b) <ul style="list-style-type: none"> <li>• Punnett Squares</li> <li>• Relationship with evolution of species</li> <li>• Human Impact (SB 4d)</li> </ul>	Plants and Animals Students will explore different phyla and complete research and lab activities.
<b>Week 9</b>	Organism Interactions (SB 5a) <ul style="list-style-type: none"> <li>• Symbiosis</li> </ul>	Individual's Organization (SB 4b&6c) <ul style="list-style-type: none"> <li>• Dichotomous Keys</li> <li>• Cladograms</li> </ul>	Microorganism (SB 4c) <ul style="list-style-type: none"> <li>• Bacteria</li> <li>• Viruses</li> </ul>	Scientific Processes and Culminating Activities

Characteristics of Science standards will be incorporated throughout the course. Also, science research days will be incorporated throughout the second semester.

*Updated 7/04/2017*