

## Biology Scope & Sequence

Days	Unit	Standard(s)/ Outcome(s)	Essential/Guiding Questions
20	<b>Diabetes</b> <ul style="list-style-type: none"> <li>● Organization of Body Systems</li> <li>● Interacting Body Systems</li> <li>● Homeostasis</li> <li>● Cellular Respiration</li> <li>● Diffusion and Osmosis</li> <li>● Cell Division</li> <li>● Formation of Complex Carbon-Based Molecules</li> </ul>	HS-LS1-2 HS-LS1-3 HS-LS1-4 HS-LS1-6 HS-LS1-7	<b><i>Driving Question: How is diabetes a disease that impacts the whole body, when it is only a blood sugar problem?</i></b>
15	<b>Dogs</b> <ul style="list-style-type: none"> <li>● Meiosis</li> <li>● Genotype/Phenotype</li> <li>● Genes</li> <li>● Alleles</li> <li>● Punnett Squares</li> <li>● Mutations</li> <li>● Chromosomes</li> <li>● DNA</li> <li>● Protein Synthesis</li> <li>● Genetic Conditions and Disorders</li> <li>● Pedigrees</li> </ul>	HS-LS1-1 HS-LS3-1 HS-LS3-2 HS-LS3-3	<b><i>Driving Question: Why are there so many different dog breeds?</i></b>
15	<b>Tuskless Elephants</b> <ul style="list-style-type: none"> <li>● Continental Drift</li> <li>● Fossils</li> </ul>	HS-LS4-2 HS-LS4-5 HS-ESS2-7	<b><i>Driving Question: Why are African Elephants no longer displaying the gene for</i></b>

	<ul style="list-style-type: none"> <li>● Geologic Timeline</li> <li>● Mass Extinctions</li> <li>● Earth's Changing Climate Over Time</li> <li>● Phylogeny</li> <li>● Evolution</li> <li>● Index Fossils</li> <li>● Adaptations</li> <li>● Homologous/Analogous Structures</li> <li>● Adaptive Radiation</li> <li>● Natural Selection</li> <li>● Evidence for Evolution</li> </ul>	<p>HS-LS2-8  HS-LS4-1  HS-LS4-2  HS-LS4-3  HS-LS4-4</p>	<p><b>tusks?</b></p>
12	<p><b>Ocean Acidification</b></p> <ul style="list-style-type: none"> <li>● Ocean Acidification</li> <li>● Photosynthesis</li> <li>● Carbon Cycling</li> <li>● Climate Change</li> </ul>	<p>HS-LS1-5  HS-LS2-4  HS-LS2-5  HS-ESS2-6  HS-ESS3-5  HS-ESS3-6</p>	<p><b><i>Driving Question: How does human activity affect the acidity of oceans?</i></b></p>
18	<p><b>Chesapeake Bay</b></p> <ul style="list-style-type: none"> <li>● Sustainability</li> <li>● Biodiversity</li> <li>● Ecological Organization</li> <li>● Biomes</li> <li>● Ecosystems</li> <li>● Biotic Relationships</li> <li>● Population Dynamics - Carrying Capacity</li> <li>● Food Chains, Food Webs, Energy Pyramids</li> <li>● Succession</li> </ul>	<p>HS-LS2-3  HS-LS2-7  HS-ESS2-2  HS-ESS3-1  HS-ESS3-3  HS-ESS3-4  HS-LS2-1  HS-LS2-2  HS-LS2-4  HS-LS2-6  HS-LS4-6</p>	<p><b><i>Driving Question: What factors impact the health of the Chesapeake Bay?</i></b></p>

	● Solutions to Human Activity Effects		
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