Biology Scope & Sequence

Days	Unit	Standard(s)/ Outcome(s)	Essential/Guiding Questions
10	Axoloti Regeneration	HS-LS1-2 HS-LS1-3 HS-LS1-4	How do organisms build their bodies and how can some organisms regenerate whole body parts?
20	Diabetes	HS-LS1-2 HS-LS1-3 HS-LS1-6 HS-LS1-7	How does diabetes impact the body?
15	Dogs Meiosis Genotype/Phenotype Genes Alleles Punnett Squares Mutations Chromosomes DNA Protein Synthesis Genetic Conditions and Disorders Pedigrees	HS-LS1-1 HS-LS3-1 HS-LS3-2 HS-LS3-3	Why are there so many different dog breeds?
15	Tuskless Elephants • Continental Drift	HS-ESS2-7 HS-LS2-6	Why are African Elephants no longer displaying the gene for

	 Fossils Geologic Timeline Mass Extinctions Earth's Changing Climate Over Time Phylogeny Evolution Index Fossils Adaptations Homologous/Analogous Structures Adaptive Radiation Natural Selection Evidence for Evolution 	HS-LS2-8 HS-LS4-1 HS-LS4-2 HS-LS4-3 HS-LS4-4 HS-LS4-5	tusks?
12	Ocean Acidification	HS-LS1-5 HS-LS2-5 HS-ESS2-2 HS-ESS2-6 HS-ESS3-5 HS-ESS3-6	What impact does carbon dioxide have on our ecosystem?
18	 Chesapeake Bay Sustainability Biodiversity Ecological Organization Biomes Ecosystems Biotic Relationships Population Dynamics - Carrying Capacity Food Chains, Food Webs, Energy Pyramids Succession Solutions to Human Activity Effects 	HS-LS2-1 HS-LS2-2 HS-LS2-3 HS-LS2-4 HS-LS2-6 HS-LS2-7 HS-LS4-6 HS-ESS2-2 HS-ESS3-1 HS-ESS3-3	What are factors that impact the health of the Chesapeake Bay as an ecosystem and are there human actions that are hurting or can help the health of the bay?