

BEAUMONT INDEPENDENT SCHOOL DISTRICT

Biology Overview

NINE WEEKS 1	NINE WEEKS 2	NINE WEEKS 3	NINE WEEKS 4
<p><u>Safety & Evidence Based Thinking</u> Lab Safety Scientific Investigation & Processes</p> <p><u>Cells and Viruses</u> Microscope & Cell Theory Prokaryotes and Eukaryotes Structures & Functions Bacteria Vs. Viruses Reproduction and Disease Environmental Impacts</p> <p><u>Cellular Processes</u> Homeostasis Feedback Loops Cell Membrane Structure and Permeability Passive & Active Transport Similarities and Differences</p> <p><u>Cell Cycle</u> Asexual Vs. Sexual Reproduction Mitosis-Significance, Stages, & Regulation Illustrations Meiosis and crossing over</p>	<p><u>DNA and Protein Synthesis</u> History, Structure & Function DNA Replication Process RNA Structure & Function DNA Vs. RNA Transcription & Translation Mutations</p> <p><u>Genetics</u> Mendel Laws & Heredity Traits, Alleles, & Genes Punnett Squares Codominance, Incomplete Dominance and Sex-Linked Blood Types Pedigrees</p> <p><u>Biomolecules & Enzymes</u> Carbohydrates, Lipids, Proteins, & Nucleic Acids Enzymes Characteristics & Functions</p> <p><u>Photosynthesis Cell Respiration & Biogeochemical Cycles</u> Location, function, & equation Water, Carbon, & Nitrogen Cycles</p>	<p><u>Evolution</u> Darwin's Observations Evidence of Evolution Common Ancestry Natural Selection Speciation Gene Flow & Genetic Drift</p> <p><u>Classification</u> History & Taxonomy Binomial Nomenclature Domain and Kingdoms Phylogeny, Cladistics, & Dichotomous Keys</p> <p><u>Biological Systems</u> Plant & Animal Systems Structure & Function Transport, Reproduction, & Response</p> <p><u>Ecology</u> Levels of Organization Food Chains, Food Webs & Energy Pyramids Symbiotic Relationships Environmental Interactions & Effects Ecological Succession Limited Resources</p>	<p><u>Biology STAAR Blitz Review</u> Enrichment Activities Review & Prepare for EOC</p> <p><u>Experimental Design & Teacher Selected Projects</u></p>