

Week (dates or numbers)	Standards	Essential skills/objectives	Activities	Assessments
Week 1:		<ul style="list-style-type: none"> -Identify Characteristics of Living things - Establish Syllabus and Class Norms 	<ul style="list-style-type: none"> - Notes - Characteristics of Life Lab 	Quiz 1
Week 2:	HS-LS1-6 HS-LS1-2.	<ul style="list-style-type: none"> - Differentiate types of bonds - Explain how bonds create macromolecules - Justify correlation between structure and function of macromolecules 	<ul style="list-style-type: none"> - Notes - Macromolecule charts - Characteristics of water notes - Penny demo (surface tension) - Ice sink/float demo (density) - Stations - characteristics of macromolecules 	Quiz 2 Lab
Week 3:	HS-LS1-2. HS-LS1-2.	<ul style="list-style-type: none"> - Categorize prokaryotes and eukaryotes - Identify cells as the basic unit of life (cell theory) - Structure and function - organelles 	<ul style="list-style-type: none"> - Notes - Cell Exploration Activity (various stations to explore cell sizes, types, organelles, observation under a microscope, compare and contrast) - Informal questioning and discussion 	Quiz 3 Cell exploration activity
Week 4:	HS-LS1-3	<ul style="list-style-type: none"> - Explain diffusion - Differentiate between passive and active transport - Justify diffusion/osmosis within cells and 	<ul style="list-style-type: none"> - Notes - Osmosis lab - Diffusion demo - Informal questioning and discussion 	Quiz 4 Osmosis Lab

		how it helps cells function		
Week 5:	HS-LS1-5 HS-LS1-2. HS-LS1-3	<ul style="list-style-type: none"> - Identify where in the cell photosynthesis occurs - Identify key structures that help photosynthesis function - Explain the two steps of photosynthesis and where they occur - Identify key molecules and their roles 	<ul style="list-style-type: none"> - Notes - Elodea and Photosynthesis lab - Informal discussion 	<ul style="list-style-type: none"> - Quiz 5 - Lab
Week 6:	HS-LS1-7 HS-LS1-3	<ul style="list-style-type: none"> - Identify key molecules and their roles - Explain the steps of cellular respiration - Identify the structures and how they help the cell perform CR 	<ul style="list-style-type: none"> - Notes - Create Cell Respiration Flow Chart (infographic) - 	<ul style="list-style-type: none"> - Quiz 6 - Infographic
Week 7:	HS-LS1-4. HS-LS3-1. HS-LS3-2.	<ul style="list-style-type: none"> - Identify the stages of cell cycle - Understand why a cell needs to divide - Connect cell cycle and cancer - Identify differences in mitosis and meiosis - Justify the need for haploid cells in gamete formation 	<ul style="list-style-type: none"> - Notes - Mitosis lab OR mitosis stop-motion project 	<ul style="list-style-type: none"> - Quiz 7 - Lab or project

Week 8:	HS-LS1-1. HS-LS3-1. HS-LS3-2.	<ul style="list-style-type: none"> - Identify DNA's role in protein synthesis - Explain the steps of transcription and translation - Correlation proteins to physical traits 	<ul style="list-style-type: none"> - Notes - Read article (khan academy) - Protein Synthesis Simulation Lab 	<ul style="list-style-type: none"> - Quiz - Lab
Week 9: (end of Q1)	HS-LS1-1, 2, 3, 4, 5, 6, 7 HS-LS3-1. HS-LS3-2.	<ul style="list-style-type: none"> - Finalize any missing or late work - Review - Study Guide 	<ul style="list-style-type: none"> - Study Guide Completion - Review Games - Midterm 	<ul style="list-style-type: none"> - Midterm
Week 10:	HS-LS3-1, 2, 3	<ul style="list-style-type: none"> - Differentiate between DNA, alleles, and genes - Discuss mutations - Introduction to Punnett squares 	<ul style="list-style-type: none"> - Notes - Class traits Lab (graph data) - Punnett Square Practice 	<ul style="list-style-type: none"> - Traits Lab - Practice Punnetts - Quiz
Week 11	HS-LS3-1, 2, 3	<ul style="list-style-type: none"> - Differentiate patterns of inheritance (incomplete, codominant, multiple alleles, X-linked) - Mixed practice with different patterns of inheritance 	<ul style="list-style-type: none"> - Notes - Mixed practice Punnett Practice - Blood Typing Lab 	<ul style="list-style-type: none"> - Blood Typing lab - Mixed Practice - Quiz
Week 12	HS-LS3-3 HS-LS4-1. HS-LS4-3. HS-LS4-4.	<ul style="list-style-type: none"> - Population Genetics and Fitness - Mechanisms of evolution - Genetic Drift and Non-random Mating - Mutation and Gene Flow - Natural Selection 	<ul style="list-style-type: none"> - Notes - Natural Selection Simulation Lab (Phet) 	<ul style="list-style-type: none"> - Simulation Lab - Quiz

Week 13	HS-LS4-1. HS-LS4-2. HS-LS4-3. HS-LS4-4. HS-LS4-5.	<ul style="list-style-type: none"> - Hardy-Weinberg Equilibrium - Lamarck and Darwin Evidence - Selection Types - Adaptation and Comparative Anatomy 	<ul style="list-style-type: none"> - Notes - Bird Beaks Lab 	<ul style="list-style-type: none"> - Lab - Quiz
Week 14	HS-LS4-1. HS-LS4-2. HS-LS4-4. HS-LS4-5. HS-LS4-6. HS-LS2-6.	<ul style="list-style-type: none"> - Comparative Genomics - Fossil Record and Geologic Time - Biogeography and Supercontinents - Speciation 	<ul style="list-style-type: none"> - Notes - Fossil Record Inquiry Lab 	<ul style="list-style-type: none"> - Lab - Quiz
Week 15	HS-LS2-1. HS-LS2-2. HS-LS2-4.	<ul style="list-style-type: none"> - Food Chains, Webs, and Pyramids - Habits and Niches - Mutualism, Predation, and Mimicry 	<ul style="list-style-type: none"> - Notes - Practice with food chains and webs - 10% Rule Lab 	<ul style="list-style-type: none"> - Lab - Quiz
Week 16	HS-LS2-2. HS-LS2-6.	<ul style="list-style-type: none"> - Commensalism, parasitisms, and competition - Biomes 	<ul style="list-style-type: none"> - Notes - Ecological relationships - Biome Map 	<ul style="list-style-type: none"> - Map - Quiz
Week 17	HS-LS2-1. HS-LS2-3. HS-LS2-4. HS-LS2-5. HS-LS2-7. HS-LS2-8.	<ul style="list-style-type: none"> - Nitrogen, water, and Carbon Cycles - Succession 	<ul style="list-style-type: none"> - Notes - Students create projects and present 1 cycle 	<ul style="list-style-type: none"> - Cycle project - Quiz
Week 18	HS-LS2-7. HS-LS2-8.	<ul style="list-style-type: none"> - Review for Final 	<ul style="list-style-type: none"> - Study Guide - Informal questioning and discussion 	<ul style="list-style-type: none"> - Final

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