

CURRICULUM GUIDE
BIOLOGY
SECOND SIX WEEKS

Unit of Study—					
TEKS #	Knowledge and Skill TEK	Student Expectation	Vocabulary	Tools	Instructional/Assessment Resources
2,3,4,6,9,11,12	<p>Student uses scientific methods during field and lab investigations. Student uses critical thinking scientific problem solving to make informal decisions. Students learn that cells are the basic structure of all living things and have specialized structures that perform specific functions. Students know the structures and functions of nucleic acid in the mechanisms of genetics. Students know metabolic processes and energy transfer that occur in living organisms. Student knows that organisms maintain homeostasis. Students knows that interdependence and interactions occur within an ecosystem.</p>	<p>Collect data and make measurements with precision. Evaluate models according to their adequacy in representing biological objects or events. Investigate and identify cellular processes including homeostasis, permeability, energy production, transportation of molecules, disposal of waste, function of cellular parts, and synthesis of new molecules. Describe the components of DNA. Compare the structure and functions of different types of biomolecules. Identify and describe the relationship between internal feedback mechanisms in the maintenance of homeostasis. Analyze the importance of nutrition, environmental conditions and exercise on health. Compare variations, tolerances, and variations of plants and animals.</p>	<p>Element, atom, nucleus, isotope, compound, covalent bond, molecule, ion, ionic bond, metabolism, polar molecule, hydrogen bond, diffusion, isomer, polymer, carbohydrate, lipid, protein, amino acid, peptide bond, enzyme, nucleic acid, nucleotide, cell, cell theory, electron microscope, organelle, prokaryote, eukaryote, plasma membrane, selective permeability, phospholipid, transport protein, cell wall, chromatin, nucleolus, ribosome, cytoplasm, endoplasmic reticulum, golgi apparatus, vacuole, lysosome,</p>	<p>Microscope Prepared slides Foldable on organelles; Map colors Markers Transparencies</p>	<p>Section worksheets Quiz::labeling cell organelles Chapter test</p>

			chloroplast, plastid, chlorophyll, microtubule, microfilament, cilia, flagella		
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Unit of Study—					
TEKS #	Knowledge and Skill TEK	Student Expectation	Vocabulary	Tools	Instructional/Assessment Resources
2,3,4,5,9,11,6,	<p>Student knows how the organism grows and how specialized cells, tissues, and organs develop.</p> <p>Student knows the structures and functions of the nucleic acids in the mechanisms of genetics.</p>	<p>Compare cells from different parts of plants and animals to show specialization of structure and function.</p> <p>Compare the processes of mitosis and meiosis and their significance to sexual and asexual reproduction.</p>	<p>Osmosis, isotonic, hypertonic, hypotonic, passive transport, facilitated transport, active transport, endocytosis, exocytosis, Chromosomes, cell cycle, Interphase, mitosis, prophase, sister chromatid, centromere, centriole, spindle, metaphase, anaphase, telophase, cytokinesis, tissue, organ, organ system</p> <p>Gene,</p>		
1,2,3,4,6,13	<p>Student knows the significance of plants in the environment</p>	<p>Survey and identify methods of reproductions of reproduction, growth, and development of plants</p>	<p>Heredity, trait, genetics, gamete, fertilization, zygote, pollination, hybrid, allele, dominant, recessive, phenotype, genotype, homozygous, heterozygous, diploid, haploid, homologous, meiosis, sperm, egg, sexual reproduction, crossing over, nondisjunction,</p>		

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