

Essential Resources		District Resources to Teach 100% of the TEKS: STEMscopes and Discovery Education																																
Spilled TEKS		Scientific Investigations & Reasoning B.1A & B, B.2A, B, C, D, E, F, G & H & B.3A, B, C, D, E & F																																
Reporting Category		Biological Processes and Systems/ Interdependence within Environmental Systems/ Cell Structure and Function							Cell Structure and Function/ Mechanisms of Genetics																									
Big Idea		Interactions Among Systems Ecological Succession Interdependence Adaptations Matter & Energy Flow in Ecosystems Ecosystem Stability Biochemistry in Living Organisms							Cellular Complexity Viruses Energy Conversions in Living Organisms Components of DNA Mutations Cell Cycle																									
Current Grade																																		
TEKS																																		
Pre-Assessing TEKS																																		
Timeline		3rd Quarter Jan 4 - March 11, 2021 (47 Instructional Days)							4th Quarter March 21 - May 28, 2022 (47 Instructional Days)																									
Reporting Category		Mechanisms of Genetics/ Cell Structure and Function/ Biological Evolution and Classification							Biological Evolution and Classification/ Biological Processes and Systems/ Cell Structure and Function																									
Big Idea		Transcription and Translation Mutations Genetic Variation Cell Cycle Evolution Natural Selection							Taxonomy Interactions Among Systems Cell Differentiation Energy Conversions in Living Organisms					Taking a Second Look: Review Current and Previous Year TEKS and Prep for EOC Wellness & Sexual Health Program																				
Current Grade																																		
TEKS																																		
Pre-Assessing TEKS																																		
		B.10C Analyze the levels of organization in biological systems and relate the levels to each other and to the whole system.	B.11A Summarize the role of microorganisms in both maintaining and disrupting the health of both organisms and ecosystems.	B.11B Describe how events and processes that occur during ecological succession can change populations and species diversity.	B.12A Interpret relationships among organisms.	B.12BCE Compare variations and adaptations of organisms in different ecosystems, analyze the flow of matter and energy through trophic levels using biogeochemicals, describe how environmental change can impact ecosystem stability.	B.12D Describe the flow of matter through the carbon and nitrogen cycles and explain the consequences of disrupting these cycles.	B.9A Compare the functions of different types of biomolecules.	B.9C Identify and investigate the role of enzymes.	B.4A Compare and contrast prokaryotic and eukaryotic cells.	B.4B Investigate and explain cellular processes.	B.4C Compare the structures of viruses to cells, describe viral reproduction, and describe the role of viruses in causing diseases such as human immunodeficiency virus (HIV) and influenza.	B.5B Identify components of DNA.	B.5E Recognize that components that make up the genetic code are common to all organisms.	B.5B Describe the stages of the cell cycle.																			
		7.12C	7.13B	7.10C	8.11A	6.12E, 7.5B, 7.10A, 7.10B, 8.11A, 8.11B	NONE	NONE	NONE	6.12B	7.12D, E, F	NONE	7.14C	7.11C	7.14B																			
		Explain the purpose and process of transcription and translation using models of DNA and RNA, recognize that gene expression is a regulated process, identify and illustrate changes in DNA, and evaluate the significance of these changes.							Predict possible outcomes of various genetic combinations, recognize the significance of meiosis to sexual reproduction.		Describe the stages of the cell cycle, recognize that disruptions of the cell cycle lead to diseases such as cancer.		Analyze and evaluate how evidence of common ancestry among groups is provided by the fossil record, biogeography, and homologies, examine scientific explanations of abrupt appearance and stasis in the fossil record.		Analyze and evaluate how natural selection produces change in populations, not individuals, analyze and evaluate how the elements of natural selection, analyze and evaluate the relationship of natural selection to adaptation and the development of diversity.		Analyze and evaluate how natural selection produces change in populations, not individuals, analyze and evaluate how the elements of natural selection, analyze and evaluate the relationship of natural selection to adaptation and the development of diversity.		Define taxonomy and recognize the importance of a standardized taxonomic system to the scientific community, categorize organisms using a hierarchical classification system based on similarities and differences shared among groups, compare characteristics of taxonomic groups.		Describe the interactions that occur among systems that perform the functions of regulation, nutrient absorption, reproduction, and defense from injury or stress in animals.		Describe the interactions that occur among systems that perform the functions of transport, reproduction, and response in plants.		Analyze the levels of organization in biological systems and relate the levels to each other and to the whole system.		Compare the reactants and products of photosynthesis and cellular respiration in terms of energy, energy conservation, and matter.		Describe the roles of DNA, ribonucleic acid (RNA), and environmental factors in cell differentiation.		Facilitate activities that reinforce and reinforce that spot TEKS for which students have struggled to master throughout the year.		Scott & White Wellness & Sexual Health Program	
		7.11C	7.14A, B	7.14B	7.11C	7.11C	7.11C	7.11C	6.12C, 6.12D	7.12B	7.12C	7.12C	7.5A	7.14B																				

Readiness standards are in bold