

STAAR Review to Go – Biology, Volume 1							
Lesson Title	Revised 2020 TEKS	2010 TEKS (not streamlined TEKS 2017)	Alignment				
*Alignment refers to the	*Alignment refers to the content within the student expectation, not to three-dimensional instruction.						
Cellular Energy	B.11(A) explain how matter is conserved and energy is transferred during photosynthesis and cellular respiration using models, including the chemical equations for these processes; and	B.4(B)	Aligned				
Biomolecules	B.5(A) relate the functions of different types of biomolecules, including carbohydrates, lipids, proteins, and nucleic acids, to the structure and function of a cell;	B.9(A)	Task 1: Partial Alignment (omit columns 3-6) Task 2: Omit all structure based responses in answer key and functions that are at the system level Task 3: Omit				
Viral Reproduction	B.5(D) compare the structures of viruses to cells and explain how viruses spread and cause disease.	B.4(C)	Not Aligned				
DNA	B.7(A) identify components of DNA, explain how the nucleotide sequence specifies some traits of an organism, and examine scientific explanations for the origin of DNA;	B.6(A)	Aligned				
Meiosis	B.8(A) analyze the significance of chromosome reduction, independent assortment, and crossing over during meiosis in increasing diversity in populations of organisms that reproduce sexually; and	B.6(G)	Task 1: Omit All other tasks are aligned				
Scientific Evidence	B.9(A) analyze and evaluate how evidence of common ancestry among groups is provided by the fossil record, biogeography, and homologies, including anatomical, molecular, and developmental; and B.9(B) examine scientific explanations for varying rates of change such as gradualism, abrupt appearance, and stasis in the fossil record. B.10(A) analyze and evaluate how natural selection produces change in populations and not in individuals;	B.7(B)	Task 1: Aligned to B.9(A) Task 2: Aligned to B.10(A) Task 3: Aligned to B.9(A)				
Natural Selection	B.10(C) analyze and evaluate how natural selection may lead to speciation; and	B.7(E)	Aligned				

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Homeostasis	REMOVED	B.11(A)	Not Aligned
Plant Systems	B.12(B) explain how the interactions that occur among systems that perform functions of transport, reproduction, and response in plants are facilitated by their structures.	B.10(B)	Aligned
Flow of Matter and Energy	B.13(B) analyze how ecosystem stability is affected by disruptions to the cycling of matter and flow of energy through trophic levels using models;	B.12(C)	Partially Aligned; no tasks address ecosystem stability or the disruptions to the cycling of matter and flow of energy
Ecological Succession	REMOVED; concept reflected in middle school TEKS	B.11(D)	Not Aligned



STAAR Review to Go – Biology, Volume 2						
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Cell Transport	B.5(C) investigate homeostasis through the cellular transport of molecules; and	B.4(B)	Aligned			
Cell Cycle	B.6(A) explain the importance of the cell cycle to the growth of organisms, including an overview of the stages of the cell cycle and deoxyribonucleic acid (DNA) replication models;	B.5(A)	Partially Aligned: Tasks 3 and question 2, task 4 are aligned. Tasks 1, 2 and question 1, task 4 are NOT aligned.			
Changes in DNA	B.7(C) identify and illustrate changes in DNA and evaluate the significance of these changes; and	B.6(E)	Aligned			
Predicting Genetic Outcomes	B.8(B) predict possible outcomes of various genetic combinations using monohybrid and dihybrid crosses, including non-Mendelian traits of incomplete dominance, codominance, sex-linked traits, and multiple alleles.	B.6(F)	Aligned			
Other Evolutionary Mechanisms	B.10(D) analyze evolutionary mechanisms other than natural selection, including genetic drift, gene flow, mutation, and genetic recombination, and their effect on the gene pool of a population.	B.7(F)	Aligned			
Classification	REMOVED, concept reflected in middle school TEKS	B.8(A)	Not Aligned			
Enzymes	B.11(B) investigate and explain the role of enzymes in facilitating cellular processes	B.9(C)	Aligned			
Body System Interactions	B.12(A) analyze the interactions that occur among systems that perform the functions of regulation, nutrient absorption, reproduction, and defense from injury or illness in animals; and;	B.10(A)	Aligned			
Flow of Matter	B.13(C) explain the significance of the carbon and nitrogen cycles to ecosystem stability and analyze the consequences of disrupting these cycles; and	B.12(E)	Aligned			
Environmental Changes	B.13(D) explain how environmental change, including change due to human activity, affects biodiversity and analyze how changes in biodiversity impact ecosystem stability.	B.12(F)	Partially Aligned; Tasks do not address effects on biodiversity by name. However, you can facilitate discussion around how changing populations affect biodiversity and thus ecosystem stability.			