Un	it 1: Scientific and Engineering Practices (Weeks 1–2)
	Lab safety and procedures Scientific methods and experimental design Using models and technology in investigations TEKS: B.1A–B.1J
Un	it 2: Biomolecules and Cell Structure (Weeks 3–5)
	Structure and function of carbohydrates, proteins, lipids, nucleic acids Compare prokaryotic vs. eukaryotic cells Cell structures and their functions TEKS: B.3A–B.3D, B.4A
Un	it 3: Cellular Processes – Energy & Transport (Weeks 6–8)
<ul><li></li></ul>	Photosynthesis and cellular respiration ATP production and energy flow Passive and active transport Homeostasis at the cellular level TEKS: B.5A–B.5E
Un	it 4: Cell Cycle and Mitosis (Week 9)
	Cell cycle stages and checkpoints Purpose and process of mitosis Regulation of cell division TEKS: B.6A



Un	it 5: DNA, Protein Synthesis, and Mutations (Weeks 10–12)
	DNA structure and replication Transcription and translation Types and effects of mutations Gene regulation and expression TEKS: B.7A–B.7D
Un	it 6: Genetics and Heredity (Weeks 13–15)
	Mendelian genetics and Punnett squares Genotype vs. phenotype Monohybrid and dihybrid crosses Complex inheritance patterns TEKS: B.8A–B.8C
Un	it 7: Biotechnology and Human Impact (Week 16)
_ _	Genetic engineering and CRISPR GMOs and bioethics Real-world applications of biotechnology TEKS: B.9A
Un	it 8: Theory of Evolution (Weeks 17–19)
	Natural selection and adaptation Evidence of evolution (fossils, DNA, anatomy) Speciation and genetic variation TEKS: B.10A–B.10D



Ur	nit 9: Classification and Taxonomy (Weeks 20–21)
	Modern classification systems  Domains and kingdoms of life  Dichotomous keys and phylogenetic trees  TEKS: B.11A–B.11C
<b>&gt;</b> Ur	it 10: Viruses and Infectious Agents (Week 22)
	Structure and reproduction of viruses Compare viruses and cells Effects on organisms and ecosystems TEKS: B.11D
Ur	it 11: Ecology – Energy Flow (Weeks 23–24)
	Food chains, food webs, and trophic levels Producers, consumers, decomposers 10% energy rule TEKS: B.12A–B.12B
<b>&gt;</b> Ur	it 12: Cycles in Nature (Week 25)
	Water, carbon, and nitrogen cycles Human influence on cycles TEKS: B.12C
<b>&gt;</b> Ur	it 13: Interactions in Ecosystems (Weeks 26–27)
	Biotic and abiotic factors  Population dynamics and carrying capacity  Symbiosis and ecological relationships  TEKS: B.12D–B.12F
Ur	it 14: Biodiversity and Environmental Change (Weeks 28–29)
_ 	Ecological succession  Human activities affecting biodiversity  Conservation and sustainability



		TEKS: B.12G
<b>&gt;</b>	Un	it 15: Plant and Animal Systems (Weeks 30–32)
		Plant structures and systems
		Animal body systems and homeostasis
		Interactions between body systems
		TEKS: B.13A-B.13C
ѷ	Un	it 16: Feedback and Regulation (Week 33)
		Positive vs. negative feedback
		Examples in plants and animals
		Maintaining internal balance
		TEKS: B.13D
<b>&gt;</b>	Un	it 17: Cumulative Review & STAAR Prep (Weeks 34–36)
		Spiral review of all TEKS
		Practice assessments and data analysis
		Final project, performance task, or exam
		TEKS: Review of B.1–B.13



### Ongoing Throughout the Year

Data interpretation, lab reporting, and modeling
Vocabulary and academic language
Cross-curricular connections with math and environmental science
Scientific reading and writing skills

