

Biology - Year at a Glance - 2026/2027

1st Nine Weeks	9wk Start Date: 8/12/26 - 9wk End Date: 10/9/26	3rd Nine Weeks	9wk Start Date: 1/6/27 - 9wk End Date: 3/4/27
- Unit 0: Laboratory Safety & Experimental Design (4 days) - TEKS in this Unit: B.1(A) B.1(B) B.1(C) B.1(D) B.1(E) B.1(F) B.1(G) B.1(H) B.2(A) B.2(B) B.2(C) B.2(D) B.3(A) B.3(B) B.3(C) B.4(A) B.4(B) B.4(C) - Target Completion Date: Aug. 17, 2026 - Unit 1: Cellular Structures (10 days) - TEKS in this Unit: B.1(F) B.4(C) B.5(A) B.5(B) B.5(D) - Target Completion Date: Aug. 31, 2026 - Unit 2: Cellular Processes (16 days) - TEKS in this Unit: B.1(B) B.1(C) B.1(D) B.1(E) B.1(G) B.5(C) B.11(A) B.11(B) - Target Completion Date: Sept. 24, 2026 - Unit 3: DNA Structure & Cell Cycle (10 days) - TEKS in this Unit: B.3(A) B.4(B) B.6(A) B.6(C) B.7(A) - Target Completion Date: Oct. 8, 2026		- Unit 7: Evidence of Evolution (11 days) - TEKS in this Unit: B.1(H) B.4(A) B.7(A) B.9(A) B.9(B) - Target Completion Date: Jan. 21, 2027 - Unit 8: Mechanisms of Evolution (12 days) - TEKS in this Unit: B.3(B) B.10(A) B.10(B) B.10(C) B.10(D) - Target Completion Date: Feb. 8, 2027 - Unit 9: Plant & Animal Systems (12 days) - TEKS in this Unit: B.1(A) B.1(F) B.5(D) B.12(A) B.12(B) - Target Completion Date: Feb. 24, 2027 - Unit 10: Ecosystem Stability (13 days) - TEKS in this Unit: B.1(A) B.1(B) B.2(D) B.3(C) B.13(A) B.13(B) B.13(C) B.13(D) - Target Completion Date: Mar. 23, 2027	
2nd Nine Weeks	9wk Start Date: 10/14/26 - 9wk End Date: 12/17/26	4th Nine Weeks	9wk Start Date: 3/15/27 - 9wk End Date: 5/27/27
- Unit 4: Role of Nucleic Acids & Protein Synthesis (11 days) - TEKS in this Unit: B.1(G) B.2(A) B.7(A) B.7(B) - Target Completion Date: Oct. 27, 2026 - Unit 5: Gene Expression (11 days) - TEKS in this Unit: B.2(B) B.3(B) B.3(C) B.6(B) B.7(B) B.7(C) B.7(D) - Target Completion Date: Nov. 11, 2026 - Unit 6: Genetics (15 days) - TEKS in this Unit: B.2(A) B.2(C) B.3(A) B.3(B) B.8(A) B.8(B) - Target Completion Date: Dec. 10, 2026		- STAAR Review: All Eligible Biology TEKS (~15 days) - TEKS: All Eligible Biology TEKS - Target Completion Date: Apr. 14, 2027 - Unit 11: Current Developments in Biology (16 days) - TEKS in this Unit: B.4(B) B.4(C) B.5(D) B.6(B) B.7(D) B.13(D) - Target Completion Date: May 6, 2027	

Science & Engineering Practices (SEPs)

B.1(A): ask questions and define problems based on observations or information from text, phenomena, models, or investigations
B.1(B): apply scientific practices to plan and conduct descriptive, comparative, and experimental investigations and use engineering practices to design solutions to problems
B.1(C): use appropriate safety equipment and practices during laboratory, classroom, and field investigations as outlined in TEA-approved safety standards
B.1(D): use appropriate tools such as microscopes, slides, Petri dishes, laboratory glassware, metric rulers, digital balances, pipets, micropipettes, gel electrophoresis and PCR apparatuses, microcentrifuges, water baths, incubators, thermometers, hot plates, data collection probes, test tube holders, lab notebooks, hand lenses, and models
B.1(E): collect quantitative data using the International System of Units (SI) and qualitative data as evidence
B.1(F): organize quantitative and qualitative data using scatter plots, line graphs, bar graphs, charts, data tables, digital tools, diagrams, scientific drawings, and student-prepared models
B.1(G): develop and use models to represent phenomena, systems, processes, or solutions to engineering problems
B.1(H): distinguish among scientific hypotheses, theories, and laws
B.2(A): identify advantages and limitations of models such as their size, scale, properties, and materials
B.2(B): analyze data by identifying significant statistical features, patterns, sources of error, and limitations
B.2(C): use mathematical calculations to assess quantitative relationships in data
B.2(D): evaluate experimental and engineering designs
B.3(A): develop explanations and propose solutions supported by data and models and consistent with scientific ideas, principles, and theories
B.3(B): communicate explanations and solutions individually and collaboratively in a variety of settings and formats
B.3(C): engage respectfully in scientific argumentation using applied scientific explanations and empirical evidence
B.4(A): analyze, evaluate, and critique scientific explanations and solutions by using empirical evidence, logical reasoning, and experimental and observational testing, so as to encourage critical thinking
B.4(B): relate the impact of past and current research on scientific thought and society, including research methodology, cost-benefit analysis, and contributions of diverse scientists
B.4(C): research and explore resources such as museums, libraries, professional organizations, private companies, online platforms, and mentors employed in a STEM field in order to investigate STEM careers

Recurring Themes & Concepts (RTCs)

Patterns: Recurring patterns in data, behavior, and structures help explain and predict phenomena in biology.
Systems and System Models: Living organisms and ecosystems function as systems whose components interact; models help represent and analyze these systems.
Energy and Matter: Matter cycles and energy flows through living systems, including photosynthesis, cellular respiration, and food webs.
Structure and Function: The structure of biological molecules, cells, organs, and organisms determines their function.
Cause and Effect: Mechanisms and explanations are used to determine how biological events occur and to predict outcomes.
Scale, Proportion, and Quantity: Phenomena in biology occur across a range of scales from molecular to ecosystem level.
Stability and Change: Ecosystems and genetic systems maintain stability while also changing over time in response to disruptions or evolution.