

BIOLOGY Year at a Glance (YAG) 2022-2023



First Semester		Second Semester		
1 st Nine Weeks – 40 days		3 rd Nine Weeks – 45 days		
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TEKS B.1A, B.1B, B,2B, B.2C, B.2D, B.2E, B.2F, B.2G, B.2H, B.3A, B.3E, B.3F B.4A, B.4B, B.6A B.7A, B.7B, B.7C, B.7D, B.7E, B.7F, B.7G B.9A, B.9C, B.9D B.10C B.11A B.12B	Unit 1: Nature of Science Students will be able to describe and apply the scientific process in the lab and in investigations. Unit 2: Evolution Students will be able to describe and prove the evolutionary theory and how it unifies and diversifies life. Unit 3: Biochemistry Students will be able to explain the role of different molecules in metabolic processes that will aid in maintaining homeostasis. Unit 4: Cellular Biology Students will understand the structures and purposes of basic components of prokaryotic and eukaryotic cells and how these cellular components are used in transport of molecules into and out of a cell.	TEKS B.1A, B.1B B.2E, B.2F, B.2G, B.2H B.3D, B.3E, B.3F B.4A, B.4B B.5B B.6B, B.6C, B.6D, B.6E, B.6G B.7E B.8A, B.8B, B.8C B.10A, B.10.B, B.10C B.11A, B.11B, B.11C	Unit 8: Molecular Biology- Protein Synthesis Students will explain the purpose and process of transcription and translation using models of DNA and RNA Unit 9: Diversity of Life Students will be able to compare characteristics of taxonomic groups, including archaea, bacteria, protists, fungi, plants, and animals Unit 10: Vertebrae Evolution Students will understand classification based on the shared characteristics of organisms and how these organisms evolved and adapted to their environment	
2 nd Nine Weeks - 43 days		4 th Nine Weeks - 45 days		
TEKS B.1A, B.1B B.2E, B.2F, B.2G, B.2 H B.3E, B.3F B.4A, B.4B B.5A, B.5B, B.5C, B.5D B.6A, B.6B B.9A, B.9B, B.9C, B.9 D	Unit 5: Cellular Energy – Photosynthesis and Respiration Students will be able to compare the reactants and products of photosynthesis and cellular respiration in terms of energy and matter Unit 6: Cellular Reproduction and DNA Students will be able to explain how the importance of the cell cycle in growth of organisms. Unit 7: Genetics Students will be able to explain the mechanisms of genetics, including the role of nucleic acids and the principles of Mendelian Genetics	TEKS B.1A, B.1B B.2E, B.2F, B.2G, B .2H, B.3E B.5B B.6G B.8C B.9A, B.9C B.10A, B.10C, B.11A, B.11B, B.11C, B.11D, B.12A, B.12B, B.1 2C, B.12D, B.12E, B.12F	Unit 11: Ecology Students will be able to explain the interdependence and interactions occur within an environmental system. Unit 12: Anatomy and Physiology Students describe the interactions that occur among systems that perform the functions of regulation, nutrient absorption, reproduction, and defense from injury or illness in animals	



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Resources

1st Nine Weeks	2nd Nine Weeks	3rd Nine Weeks	4th Nine Weeks
Unit 1: Nature of Science: Chapter 1	Unit 5: Cellular Energy: Chapters 8 – 9	Unit 8: Molecular Biology: Chapters 13, 15	Unit 11: Ecology: Chapters 3 – 6
Unit 2: Evolution: Chapter	Unit 6: Cellular Reproduction: Chapters 12, 10, 11.4	Unit 9: Diversity of Life:	Biology EOC/STAAR Exam
16	Unit 7. Counties	Chapters 18 – 24	Hait 12. Applement Bloodelean
Unit 3: Biochemistry:	Unit 7: Genetics : Chapters 11, 14, 17	Unit 10: Vertebrate Evolution:	Unit 12: Anatomy and Physiology: Chapter 30
Chapter 2		Chapters 25 – 28	
	Fall Semester Final Exam		Spring Semester Final Exam
Unit 4: Cellular Biology: Chapter 7			