Biology Scope and Sequence 2019 – 2020

Date	Unit Name	Concepts	TEKS
August 26 -30	Introduction	Investigations* Processes* Safety* *included in every unit	1B, 2E, 2F, 2G, 2H, 3A, 3B, 3C, 3D, 3E, 3F 2A, 2B, 2C, 2D, 1A
September 3 - 13	Unit 1: Cell Structure	Cell Structure, function, Viruses Cell Complexity	4A 4C 10C 1A, 1B, 2E, 2F, 2G, 2H, 3A, 3B, 3E,
September 16 – 27	Unit 2: The Cell Cycle	Cell Cycle Stages, replication, mitosis, Cancer DNA Components Biomolecules	5A 5C 6A 9A 1A, 1B, 2E, 2F, 2G, 2H, 3A, 3B, 3E,
September 30 – October 10 *Note – 1st six weeks ends October 3	Unit 3: Cellular Processes for Homeostasis	Homeostasis, transportation of molecules Biomolecules	4B 9A 1A, 1B, 2E, 2F, 2G, 2H, 3A, 3B, 3E,
October 11 – 25	Unit 4: Cellular Processes for Energy	Biomolecules Photosynthesis Cellular Respiration Enzymes	9A 9B 9B 9C 1A, 1B, 2E, 2F, 2G, 2H, 3A, 3B, 3C, 3E,
October 28 – November 22 *Note – 2nd six weeks ends November 7	Unit 5: Nucleic Acids and Protein Synthesis	DNA components Transcription, Translation Mutations Biomolecules	6A 6C 6E 9A 1A, 1B, 2E, 2F, 2G, 2H, 3A, 3B, 3E,
December 2 – January 10 *Note – 3rd six weeks ends December 20 End of 1st Semester	Unit 6: Genetics, Epigenetics	Cell Differentiation Gene expression Punnett squares Meiosis	5B 6D 6F 6G 1A, 1B, 2E, 2F, 2G, 2H, 3A, 3B, 3E,
January 13 – February 4	Unit 7: Evolution	DNA Origins Genetic Code common Ancestry (fossil records, biogeography, homologies {anatomical, molecular, developmental}) Fossil Records Natural Selection Survival of the Fittest Adaptations Evolutionary mechanisms (genetic drift, gene flow, mutation, recombination)	6A 6B 7A 7B 7C 7D 7E 7F

			1A, 1B, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 3A, 3B, 3D, 3E, 3F,
February 5 – 21 *Note – 4th six weeks ends February 13	Unit 8: Taxonomy	Taxonomy Classification system 6 kingdoms	8A 8B 8C 1A, 1B, 2E, 2F, 2G, 2H, 3A, 3B, 3D, 3E, 3F,
February 24 – March 3	Unit 9: Animal Systems	Viral diseases Human systems Biological organization Microorganisms	4C 10A 10C 11A 1A, 1B, 2E, 2F, 2G, 2H, 3A, 3B, 3E, 3F,
March 4 -18	Unit 10: Plant systems	Plant systems Biological organization	10B 10C 1A, 1B, 2E, 2F, 2G, 2H, 3A, 3B, 3E, 3F,
March 19 – April 3 *Note – 5th six weeks ends April 3	Unit 11: Ecosystems	Biological organization Microorganisms Ecological succession Community interactions Symbiotic relationships Variations, adaptions in the environment Matter, energy flow Carbon, Nitrogen cycles Impact on ecosystem stability	10C 11A 11B 12A 12A 12B 12C 12D 12E 1A, 1B, 2E, 2F, 2G, 2H, 3A, 3B, 3E,
April 6 - 29	Kilgo Rotation	Review for the EOC Biology Test	All readiness and support TEKS with the processes TEKS included in questions.
April 30 – May 1	EOC Biology Practice Questions	Practice Test	All readiness and support TEKS with the processes TEKS included in questions.
May 5 May 6 May 7 May 8	STAAR EOC State Testing	Algebra I Biology U.S. History	
May 11 - 15	Unit 1: Cell Structure	Cell Structure, function, Viruses Cell Complexity	4A 4C 10C 1A, 1B, 2E, 2F, 2G, 2H, 3A, 3B, 3E,
May 18 - 22	Unit 8: Taxonomy	Taxonomy Classification system 6 kingdoms	8A 8B 8C 1A, 1B, 2E, 2F, 2G, 2H, 3A, 3B, 3D, 3E, 3F,
May 25 – 28 *Note – 6th six weeks ends May 28 End of 2nd Semester	Semester Exams		