

Physics 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 – October 3 <i>*Note – 1st six weeks ends October 3</i>	Unit 1: Kinetics, Graphing Motion	Motion One dimensional motion	4A 4B 1A, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2I, 2J, 3A, 3B, 3E,
October 7 - 25	Unit 2: Newton’s Laws of Motion	Calculate Forces	4D 1A, 2C, 2D, 2E, 2F, 2G, 2H, 2I, 2J, 3A, 3B, 3C, 3D, 3E,
October 28 – November 7 <i>*Note – 2nd six weeks ends November 7</i>	Unit 3: Two Dimensional Motion	Accelerated motion	4C 1A, 2D, 2E, 2F, 2G, 2I, 2J, 3A, 3B, 3E,
November 11 - 15	Unit 4: Universal Gravitation	Forces (gravitational, electromagnetic, weak nuclear, strong nuclear) Gravitation force magnitudes	5A 5B 2C, 2D, 2E, 2F, 2H, 2I, 2J, 3A, 3B, 3C, 3E,
November 18 – December 20 <i>*Note – 3rd six weeks ends December 20 End of 1st Semester</i>	Unit 5: Conservation of Energy	Quantities Kinetic, potential energy Mechanical energy Laws of conservation of energy	6A 6B 6C 6D 1A, 2C, 2D, 2E, 2F, 2G, 2H, 2I, 2J, 3A, 3B, 3E,
January 8 – January 24	Unit 6: Conservation of Momentum	Momentum, energy Laws of conservation of momentum	6C 6D 1A, 2C, 2D, 2E, 2F, 2G, 2H, 2I, 2J, 3A, 3B, 3E,
January 27 – February 4	Unit 7: Thermodynamics	4 laws of thermodynamics	6E 1A, 2C, 2D, 2E, 2F, 2I, 2J, 3A, 3B, 3C, 3D, 3E,
February 5 – March 3 <i>*Note – 4th six weeks ends February 13</i>	Unit 8: Waves	Oscillatory motion Wave propagation Characteristics of waves Transverse waves Behaviors of waves Reflection and Refraction	7A 7A 7B 7C 7D 7E 1A, 2D, 2E, 2F, 2G, 2H, 2I, 2J, 3A, 3B,

			3D, 3E,
March 4 – 27	Unit 9: Electrical, Magnetic Forces and Fields	Forces (gravitational, electromagnetic, weak nuclear, strong nuclear) Magnitude of electrical forces Electric and Magnetic forces	5A 5C 5D 1A, 2D, 2E, 2F, 2H, 2I, 2J, 3A, 3B, 3C, 3E,
March 30 – May 4 <i>*Note – 5th six weeks ends April 3</i>	Unit 10: Current Electricity	Conductors and Insulators Current Electricity	5E 5F 1A, 1B, 2D, 2E, 2F, 2G, 2H, 2I, 2J, 3A, 3B, 3C, 3D, 3E,
May 5 May 6 May 7 May 8	STAAR EOC State Testing	Algebra I Biology U.S. History	
May 11 – May 22	Unit 11: Atomic, Nuclear, Quantum Physics	Forces (gravitational, electromagnetic, weak nuclear, strong nuclear) Photoelectric effect Emission spectra Mass-energy equivalency Applications of atomic and nuclear energy	5A 8A 8B 8C 8D 1A, 2C, 2F, 2H, 2I, 2J, 3A, 3B, 3C, 3D, 3E,
May 25 – 28 <i>*Note – 6th six weeks ends May 28</i> <i>End of 2nd Semester</i>	Semester Exams		