

Chemistry 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 – 18	Unit 1: Matter	Physical chemical changes properties Extensive intensive properties Comparing states of matter Classifying matter	4A 4B 4C 4D 1A, 1B, 1C, 2E, 2F, 2H, 2I, 3A, 3B,
September 19– October 11 *Note – 1st six weeks ends October 3	Unit 2: Atomic Structure and the Periodic Table	Periodic table development Chemical families Periodic trends Modern atomic theory Electromagnetic spectrum Atomic mass	5A 5B 5C 6A 6B 6C 1A, 1B, 1C, 2A, 2B, 2C, 2D, 2E, 2G, 2H, 2I, 3A, 3B, 3D, 3F
October 12 – 31	Unit 3: Chemical Bonding	Electron arrangement Electron dot formulas Metallic properties Molecular structure	6D 7C 7D 7E 1A, 1B, 1C, 2C, 2E, 2F, 2G, 2H, 2I, 3A, 3B, 3D, 3E, 3F
November 1 – November 15 *Note – 2nd six weeks ends November 7	Unit 4: Chemical Formulas	Ionic compounds Writing chemical formulas	7A 7B 1A, 1B, 1C, 2E, 2F, 2G, 2H, 2I, 3A, 3B,
November 18 – December 10	Unit 5: Chemical Equations and Reactions	Balance chemical equations Double replacement reactions	8E 8F 1A, 1B, 1C, 2E, 2G, 2H, 2I, 3A, 3B, 3D, 3F
December 10 - 20 *Note – 3rd six weeks ends December 20 End of 1st Semester	Unit 6: Mole Concept	The mole Avogadro's number Composition of compounds Empirical, molecular formulas	8A 8B 8C 8D 1A, 1B, 1C, 2A, 2E, 2F, 2G, 2H, 2I, 3A, 3B, 3C, 3F
January 8 - 24	Unit 7: STOichiometry	The Mole Stoichiometric calculations Balanced chemical equations	8A 8G 8H

			1A, 1B, 1C, 2E, 2F, 2G, 2H, 2I, 3A, 3B,
January 24 – February 13 *Note – 4th six weeks ends February 13	Unit 8: Gases	The mole Stoichiometric calculations Boyle’s laws Kinetic molecular theory	8A 8G 9A 9B 1A, 1B, 1C, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2I, 3A, 3B, 3D, 3F
February 18 – March 06	Unit 9: Solutions	Water in solutions Solubility Concentrations of solutions Dilutions of solutions Types of solutions Factors in solutions and dissolutions	10A 10B 10C 10D 10E 10F 1A, 1B, 1C, 2E, 2F, 2G, 2H, 2I, 3A, 3B,
March 16 – 27	Unit 10: Acids and Bases	Types of solutions Acids and bases Ph in solutions	10E 10G 10H 1A, 1B, 1C, 2B, 2C, 2D, 2E, 2G, 2H, 2I, 3A, 3B, 3F
March 30 – April 30 *Note – 5th six weeks ends April 3	Unit 11: Thermochemistry	Energy Law of conservation of energy Classifying reactions Calculations heat	11A 11B 11C 11D 1A, 1B, 1C, 2E, 2F, 2G, 2H, 2I, 3A, 3B,
May 1 – May 22	Unit 12: Nuclear Chemistry	Characteristics of nuclear reactions Compare fission and fusion	12A 12B 1A, 1B, 1C, 2B, 2C, 2D, 2E, 2G, 2H, 2I, 3A, 3B, 3D, 3E
May 5 May 6 May 7 May 8	STAAR EOC State Testing	Algebra I Biology U.S. History	
May 25 – 28 *Note – 6th six weeks ends May 28 End of 2nd Semester	Semester Exams		