

## Commerce City Schools Curriculum Map

Grade Level: 11<sup>th</sup>

Content Area: Chemistry

Grading Period	1 <sup>st</sup> 6 weeks	1 <sup>st</sup> 6 weeks	1 <sup>st</sup> 6 weeks	1 <sup>st</sup> and 2 <sup>nd</sup> 6 weeks	2 <sup>nd</sup> and 3 <sup>rd</sup> 6 weeks	3 <sup>rd</sup> 6 weeks	3 <sup>rd</sup> 6 weeks
<b>Name of Unit</b>	<b>Introduction to Chemistry and Matter</b>	<b>Atoms</b>	<b>The Periodic Law</b>	<b>Language of Chemistry</b>	<b>Phases of Matter</b>	<b>Solutions and Their Behavior</b>	<b>Chemical Reactions</b>
<b>Big Ideas</b>	<b>Matter and Change, Properties of Matter, Scientific Method, Units of Measurement, Using Scientific Measurements</b>	<b>Structure of the Atom, Counting Atoms, The Quantum Theory, Electron Configuration</b>	<b>History of the Periodic Table, Electron Configuration and the Periodic Table, Electron Configuration and Periodic Properties, Chemical Bonding, Molecular Geometry,</b>	<b>Chemical Names and Formulas, Oxidation Numbers, Chemical Reactions, Activity Series of the Elements, Stoichiometry</b>	<b>Kinetic Theory of Matter, Liquids, Solids, Gasses, Gas Laws</b>	<b>Solutions, Colligative Properties of Solutions, Properties of Acids and Bases, Acid-Base Reactions, Titration and pH</b>	<b>Reaction Energy, Reaction Kinetics, Chemical Equilibrium, Solubility Equilibrium, Oxidation – Reduction Reactions</b>
<b>Pacing of Unit</b>	<b>2 weeks</b>	<b>2 weeks</b>	<b>1.5 – 2 weeks</b>	<b>3.5 – 4.5 weeks</b>	<b>2.5 weeks</b>	<b>2.5 – 3 weeks</b>	<b>3 weeks</b>
<b>Resources</b>	<b>Textbook and related materials, laboratory equipment</b>	<b>Textbook and related materials, laboratory equipment</b>	<b>Textbook and related materials, laboratory equipment and</b>	<b>Textbook and related materials, laboratory equipment</b>	<b>Textbook and related materials, laboratory</b>	<b>Textbook and related materials, laboratory</b>	<b>Textbook and related materials, laboratory equipment</b>

	<b>and supplies, computers</b>	<b>and supplies, computers</b>	<b>supplies, computers</b>	<b>and supplies, computers</b>	<b>equipment and supplies, computers</b>	<b>equipment and supplies, computers</b>	<b>and supplies, computers</b>
<b>Key Standards</b> (See <a href="http://www.georgiastandards.org">www.georgiastandards.org</a> for a list of standards by grade level and content area)	<b>SC1a, SC1b</b>	<b>SC3a, SC3b, SC3c, SC3d, SC3e, SC3f</b>	<b>SC4a, SC4b</b>	<b>SC1c, SC1d, SC2a, SC2b, SC2c, SC2d, SC2e</b>	<b>SC6a, SC6b, SC6c</b>	<b>SC7a, SC7b</b>	<b>SC5a, SC5b, SC6b</b>
<b>Related Standards – ISTE Standards</b>	<b>1a, 2a, 2d, 3a, 3d, 4a, 4b, 4c</b>	<b>1b, 1c, 2c, 2d, 3a, 3b, 3c, 4b, 5b, 6b</b>	<b>1a, 1b, 2b, 3b, 3d</b>	<b>3b, 3c, 3d,</b>	<b>1a, 1c, 1d, 2d, 3d,</b>	<b>1c, 1d, 2a, 3a, 3d, 4a, 4c,</b>	<b>1c, 1d, 2d, 3d,</b>