

Honors Chemistry  
1<sup>st</sup> Semester

CONTENT	DATE
<b>MODERN ATOMIC THEORY AND PERIODIC LAW</b> APEX UNIT 2: ATOMIC STRUCTURE Lesson 1: Matter, Forces, and Energy Lesson 2: Atoms Lesson 3: Elements Lesson 4: Doing Science: Atomic Structure Lesson 5: Atomic Structure Wrap-Up	August 10 – September 11
<b>CHEMICAL BONDING AND PROPERTIES OF MATTER</b> APEX UNIT 3: BONDING IN MATTER Lesson 1: Electrons and Periodicity Lesson 2: Bonding and Forces Lesson 3: Compounds and Molecules Lesson 4: Doing Science: Bonding in Matter Lesson 5: Bonding in Matter Wrap-Up	September 14 – October 23
<b>LAW OF CONSERVATION OF MATTER AND CHEMICAL REACTIONS</b> APEX UNIT 4: CHEMICAL REACTIONS Lesson 1: The Mole Lesson 2: Changes in Matter Lesson 3: Balancing Chemical Reactions Lesson 4: Doing Science: Chemical Reactions Lesson 5: Chemical Reactions Wrap-Up	October 26 – December 11
<b>REVIEW AND FINAL EXAMS</b> APEX UNIT 6: SEMESTER 1 REVIEW AND EXAM	December 14 – 18

Honors Chemistry  
2<sup>nd</sup> Semester

CONTENT	DATE
LAW OF CONSERVATION OF MATTER AND CHEMICAL REACTIONS (Content to be included for second semester) Lesson: Stoichiometry and Limiting Reactants	January 4 – January 22
MANIPULATING CHEMICAL REACTIONS (Content to be include for second semester) Lesson: Factors Affecting Chemical Reactions Lesson: Collision Theory, Transition State Theory, Activation Energy and Catalysts Lesson: Chemical Systems and Equilibrium	January 25 – February 19
THERMOCHEMISTRY AND STATES OF MATTER APEX UNIT 9: TRANSFERRING ENERGY Lesson 1: Transferring Heat Lesson 2: Enthalpy Lesson 3: Entropy and Spontaneity Lesson 4: Doing Science: Transferring Energy Lesson 5: Transferring Energy Wrap-Up APEX UNIT 7: ENERGY IN MATTER Lesson 1: Phases of Matter Lesson 2: Liquids and Solutions Lesson 3: Gases Lesson 4: Doing Science: Energy in Matter Lesson 5: Energy in Matter Wrap-Up	February 22 – March 26
PROPERTIES OF SOLUTIONS APEX UNIT 8: EQUILIBRIUM AND KINETICS Lesson 1: Equilibrium Lesson 2: Acids and Bases Lesson 3: Kinetics Lesson 4: Doing Science: Equilibrium and Kinetics Lesson 5: Equilibrium and Kinetics Wrap-Up	April 5 – May 14
REVIEW AND FINAL EXAMS APEX UNIT 12: SEMESTER 2 REVIEW AND EXAM	May 17 – 26