



ALLEN ACADEMY

AP Chemistry 2017-2018

First Trimester	Second Trimester	Third Trimester
<p>Unit 1: Fundamentals of Chemistry</p> <p>Core Laboratory Investigations: 1 – Analysis of a Hydrated Compound 2 – Intro to Colorimetry</p> <p>Unit 2: Stoichiometry and Chemical Reactions</p> <p>Core Laboratory Investigations: 3 – Gravimetric Analysis</p> <p>Unit 3: Electrochemistry</p> <p>Core Laboratory Investigations: 4 – REDOX Titration 5 – Electrolysis 6 – Electroplating</p> <p>Unit 4: Thermochemistry and Thermodynamics</p> <p>Core Laboratory Investigations: 7 – Endothermic and Exothermic Reactions 8 – Hess's Law</p> <p>Unit 5: Kinetics</p> <p>Core Laboratory Investigations: 9 – Measuring the Speed of a Reaction</p>	<p>Unit 6: General Equilibrium</p> <p>Core Laboratory Investigations: 10 – Determining an Equilibrium Constant 11 – Determining K_{sp} via Titration</p> <p>Unit 7: Acid-Base Equilibrium</p> <p>Core Laboratory Investigations: 12 – Exploring pH 13 – pH of Salt Solutions 14 – Determination of the Identity of an Unknown Weak Acid</p> <p>Unit 8: Atomic Structure and Periodicity</p> <p>Core Laboratory Investigations: 15 – Flame Tests</p> <p>Unit 9: Bonding, Intermolecular Forces, and Solutions</p> <p>Core Laboratory Investigations: 16 – Alchemy? 17 – Ionic or Covalent? 18 – Club Fuego and the Case of Intermolecular Forces</p>	<p>Unit 10: Gas Laws and Gas Stoichiometry</p> <p>Core Laboratory Investigations: 19 – Molar Mass of Butane 20 – Gas Stoichiometry Rockets</p> <p>AP Chemistry Exam Review</p>
Instructional Resources:		
<ul style="list-style-type: none">• Online Text: <i>Chemistry</i>, 10th Edition, AP Edition, Zumdahl		