

## Chemistry Advanced Parent Guide

Chemistry is a study of the structure, composition, and behavior of matter. This course is a laboratory-oriented course that emphasizes the skills of gathering and analyzing both qualitative (observational) and quantitative (numerical) data at an accelerated pace. An in-depth study of mathematical applications will be stressed, and students will engage in higher level laboratory experiences, gathering and processing complex data and writing technical conclusions. Emphasis is placed on independent labs skills and critical thinking skills. Texas Essential Knowledge and Skills for Chemistry [§112.35. Chemistry \(One Credit\), Adopted 2017](#)

<p><b>1<sup>st</sup> 6 Weeks:</b> Course Introduction and Safety Matter, Energy Measurement Atomic Theory, Nuclear and Moles</p>	<p><b>4<sup>th</sup> 6 Weeks:</b> Mole Calculations Chemical Reactions Stoichiometry</p>
<p><b>2<sup>nd</sup> 6 Weeks:</b> Atomic Theory, Nuclear and Moles Electrons and Trends</p>	<p><b>5<sup>th</sup> 6 Weeks:</b> Stoichiometry Solutions and Intramolecular Forces Acids/Bases and Titrations Gases</p>
<p><b>3<sup>rd</sup> 6 Weeks:</b> Bonding/VSEPR Nomenclature Careers in Chemistry</p>	<p><b>6<sup>th</sup> 6 Weeks:</b> Gases Thermodynamics Reaction Kinetics and Equilibrium Qualitative Analysis</p>

**Questions?** Please contact your course science teacher.