

Chemistry On-Level 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. Students will cover nomenclature, chemical reactions, stoichiometry, the behavior of gases, atomic history and structure, chemical bonding, nuclear fission and fusion as well as acid-base theories. A conceptual approach will be coupled with mathematical skills necessary to solve fundamental chemistry problems. Students will investigate how chemistry is an integral part of our daily lives. Texas Essential Knowledge and Skills for Chemistry [§112.35. Chemistry \(One Credit\), Adopted 2017](#)

1st 6 Weeks:

Course Introduction and Safety
Matter, Energy
Measurement
Periodic Table/Atoms

4th 6 Weeks:

Nomenclature
Mole Applications
Chemical Reactions

2nd 6 Weeks:

Periodic Table/Atoms
Moles Introduction
Electrons and Trends

5th 6 Weeks:

Chemical Reactions
Stoichiometry
Solutions
Acids/Bases

3rd 6 Weeks:

Electrons and Trends
Bonding/VSEPR
Careers in Chemistry

6th 6 Weeks:

Gases
Thermodynamics
Qualitative Analysis

Questions? Please contact your course science teacher.