



Chemistry Syllabus

Term: 2011-12

Teacher: Mr. Brent Beaumont
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Course Description

Chemistry is the study of matter and how it behaves according to a few fundamental laws. In this course, we will explore the properties of matter conceptually and experimentally, as they both learn and discover the laws of chemistry. Topics to be covered include measurement, energy, atoms, molecules, chemical reactions, thermodynamics, and kinetics.

Primary Text

Wile, Dr. Jay L. *Exploring Creation with Chemistry*, 2nd edition

Evaluation

Exams	70%
Homework	20%
Participation	10%

Course Outline

1st Semester

<u>Week</u>	<u>Topic</u>
1-2	Module 1: Measurement and Units
3-4	Module 2: Energy, Heat, and Temperature
5-6	Module 3: Atoms and Molecules
7-8	Module 4: Classifying Matter and Its Changes
9-10	Module 5: Counting Molecules and Atoms in Chemical Equations
11-12	Module 6: Stoichiometry
13-14	Module 7: Atomic Structure
15-16	Module 8: Molecular Structure
17-18	Review and Exam

2nd Semester

<u>Week</u>	<u>Topic</u>
1-2	Module 9: Polyatomic Ions and Molecular Geometry
3-4	Module 10: Acid/Base Chemistry
5-6	Module 11: The Chemistry of Solutions
7-8	Module 12: The Gas Phase
9-10	Module 13: Thermodynamics

11-12	Module 14: Kinetics
13-14	Module 15: Chemical Equilibrium
15-16	Module 16: Reduction/Oxidation Reactions
17-18	Review and Exam