



Southern Lehigh School District

High School Syllabus

AP Chemistry

2013-14

Course Description:

AP CHEMISTRY is designed to be equivalent to a college-level introductory chemistry course. A summer assignment is required and reviews information that was studied in CHEMISTRY I. Topics include gas laws, acid/base chemistry, equilibrium, kinetics, thermodynamics, electrochemistry, and descriptive chemistry. These topics will be covered through lecture, discussion, and laboratory investigations. AP CHEMISTRY is appropriate for those students who are highly motivated and are ready for a demanding college-level course. Students are strongly encouraged to take the AP CHEMISTRY exam, at their own expense, offered in May. Most colleges will award credit for a passing score on the exam. Students are advised to consult with their parents, guidance counselors, and teachers before selecting any AP course. This is a weighted course. A scientific calculator is required for this course.

Course Content:

Mass Relationships in Chemical Reactions

The Gaseous State

Thermochemistry

Intermolecular Forces

Properties of Solutions

Chemical Kinetics

Chemical Equilibrium

Acids and Bases

Entropy and Free Energy

Electrochemistry

Descriptive Chemistry

Required Textbooks and/or Other Reading/Research Materials

Students will be using a college-level textbook, that will be provided for them. They will be reading a large portion of the text and working problems that are included in the book.

Chemistry, 11th Edition by Raymond Chang and Kenneth Goldsby. McGraw-Hill, New York, NY, 2013.

Course Requirements:

Students are expected to be in class on time and come prepared every class period with their homework, 3-ring binders, pen/pencil, laboratory notebook, and a calculator. In addition to the regular class period during the block, there is an additional required AP Chemistry recitation during the Spartan Period. If a student is absent from class, it is his/her responsibility to check on the teacher's website for missed work and to promptly make up that work. Refer to the policy in the student handbook for timelines to make up missed work and assessments.

Grade Components/Assessments:

Grades will be weighted. Sapphire will automatically give a student's grade total as a weighted percentage based on the following category percentage breakdown:

Exams	60% of the marking period grade
Laboratory/Projects	20% of the marking period grade
Quizzes (on homework)	20% of the marking period grade

Each marking period is worth 20% of a student's overall grade. The midterm and final exam are each worth 10% of a student's overall average:

Quarter 1	20%
Quarter 2	20%
Midterm	10%
Quarter 3	20%
Quarter 4	20%
Final	10%

Required Summer Reading/Assignments:

A required Summer Assignment is given on the teacher's website.