



Southern Lehigh School District

High School Syllabus

Chemistry I

2013-2014

Course Description:

Chemistry I is the study of the properties of matter and the changes it undergoes. The study of chemistry is essential for students considering careers not only in chemistry, but also biology, engineering, and all health related fields.

Topics covered in class include the states of matter, atomic structure, chemical compounds, chemical reactions, bonding, periodic law, and stoichiometry. These areas are also studied with appropriate laboratory investigations.

Since the study of these topics is done both qualitatively and quantitatively with the frequent use of algebraic relationships, the student electing this course must have completed Algebra IA and IB with a grade of C or better.

Course Content:

Matter and Energy
Properties of Matter
Changes in Matter
Classes of Matter
Measurement, Accuracy, and Precision
Calculations by Factor Label Technique
Atomic Structure
Electron Cloud
The Periodic Table
Chemical Bonding
Chemical Formulas
Chemical Equations and Balancing
Mass Relationships in Chemical Reactions

Required Textbooks and/or Other Reading/Research Materials

Students will be reading and working problems supplied in the following textbook

Pearson Chemistry by Wilbraham, Antony, Dennis Staley, Michael Matta, and Edward Waterman. Pearson Education, 2012.

Course Requirements:

Students are expected to come to class prepared with binders, pen and pencil, lab notebook, and a calculator. They are expected to complete all exams, quizzes, labs, and assignments on time.

If a student is absent, it is his/her responsibility to check the calendar on the teacher's website 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 based on a category percentage. Sapphire will automatically give a student's grade total as a weighted percentage based on the following category percentage breakdown:

Assessment	50% of the final grade
Laboratory/Projects	30% of the final grade
Homework/Participation	20% of the final 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:

There is no summer reading assignment.