



Applied Physical Science

2013-2014

Course Description:

An introduction to the study of the physical sciences and the basics of scientific investigation.

Introduction to Chemistry and Physics will emphasize

- Investigation (3 weeks) Chapter 1
- Chemistry (22 weeks) Chapter 2 thru Chapter 5
- Physics (11 weeks) Chapter 8 thru 10

This course, while not designed as a college preparatory requirement, can serve as a springboard to taking Chemistry I or Physics I in subsequent years. Physical Science A can also serve as the first half of the physical science requirement for students to be followed by Physical Science B. The students' background in mathematics is considered in determining appropriate instructional techniques and classroom applications.

Course Content:

- I. INTRODUCTION TO SCIENCE
- II. MATTER
- III. ATOMS AND THE PERIODIC TABLE
- IV. THE STRUCTURE OF MATTER
- V. CHEMICAL REACTIONS
- VI. MOTION AND FORCES
- VII. WORK AND ENERGY
- VIII. HEAT AND TEMPERATURE

Required Textbooks and/or Other Reading/Research Materials

Chemistry by Wilbraham, Staley, Matta, and Waterman. Pearson, 2012.

Course Requirements:

Each student is required to complete all projects, tests, and assignments. Failure to do so will affect the student's overall grade. All students are expected to participate in class, work safely in laboratory, and be an overall responsible member of the class

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:

TESTS and Quizzes	35 %
LABS Projects Papers	20 %
Participation	35 %
Ready Grade	10 %

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:

No summer assignment is given.