

Syllabus

Introduction to Physics and Chemistry

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Course Description: Introduction to Physics and Chemistry is a course that introduces many basic ideas of physics and chemistry. In the physics section students will learn about motion, forces, energy, and momentum. The chemistry section will include units on the Kinetic-Molecular theory, atomic structure, chemical bonding, and chemical reactions. The inquiry format of the course will assist students in the formation of critical thinking skills and scientific rationale. Coursework will include keeping laboratory notebooks, performing laboratory experiments, performing laboratory practicums, writing laboratory reports, homework, quizzes, and tests. This class is for all 9th grade students. This course is for two (2) semesters and one (1) unit of credit.

Textbooks: *Science Spectrum: A Physical Approach*, Dobson, Holman, and Roberts, Holt, Rinehart and Winston, 2001. Text is not issued to student.

Materials Needed: A notebook for taking class notes and doing class work, a separate composition style bound notebook for lab, pen/pencil, and a calculator.

Topics Covered: (subject to change)

Scientific Method and Measurement

Motion

Forces

Energy and Momentum

Particles, Phases, and Solutions

Atoms, Elements, and Compounds

Bonding

Reactions