



FREEDOMPROJECT
ACADEMY

Course Syllabus

Chemistry

Course Description:

Welcome to Chemistry! This is a college-preparatory chemistry education, employing the “atoms first” approach to chemistry, provides foundational information about atoms and molecules that allows for a logical and sequential presentation of topics. Topics of study include classification of matter, atomic structure, spectroscopy, chemical bonding, molecular geometry, physical change, chemical change, stoichiometry, solutions, ideal gases, acid/base chemistry, reduction/oxidation reactions, thermochemistry, thermodynamics, kinetics, and chemical equilibrium. Students are taught to think as chemists to analyze changes in matter using the concepts of chemistry and their mathematical applications.

Major Topics of Study:

Chemistry

Text/Required Materials:

Discovering Design with Chemistry

Lab Kit

Denatured Alcohol (available at hardware stores)

Additional household items for labs (see lab supply list)

Scientific calculator

Grading:

Notes - 10%
Comprehension Check - 10%
Chapter Homework - 10%
Chapter Review - 10%
Lab Reports - 15%
Chapter Tests - 30%
Exams - 15%

The FPE grading scale is:

97-100 A+	87-89 B+	77-79 C+	67-69 D+
93-96 A	83-86 B	73-76 C	65-66 D
90-92 A-	80-82 B-	70-72 C-	0-64 F

Attendance/Participation:

You have reached the rhetorical stage of your educational development and are expected to participate in class, share thoughts and ideas, and help your fellow classmates.

Please be RESPECTFUL of other classmates during our time in the classroom. (We love to have fun but we also need to stay on task.)

Expectations/Guidelines:

Read the lessons to be covered prior to coming to Classroom Live.

Join live class on time. Please do not enter late and disrupt class by asking what you missed.

Attendance is important to understand the concept and the written work that will demonstrate understanding.

Learning is rarely accomplished by just watching. Do the examples with the class.

Take detailed notes neatly and orderly, not screen shots.

Ask questions if you do not understand a concept or how to show your work properly.