

Chemistry I

Teacher: Scott Zarnegar

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Website: linked from SEHS homepage

1. Introduction

2. Office Hours:

Before school any day no appointment necessary

Lunch by appointment

3. Grading:

Exams (1 per trimester), Quizzes (weekly), Labs (weekly), Homework (daily)

I post grades on Synergy weekly. Please check!

4. Assignments:

Expect a daily assignment. I give a small amount of homework almost nightly in order to reinforce the concepts learned that day. I try to keep the work short and to the point (15-20 minutes). Failure to do the HW results in lower test scores as well as low HW scores.

5. Labs

Take a look at our awesome lab! We have no lab manager, we rely on ourselves and student aides to prep and take down labs. We usually have one lab a week. Labs are used to reinforce concepts and to get hands-on experience with chemicals. Lab safety is extremely important and somewhat humorless.

6. Where will your student go after Chemistry I?

There are lots of options after this class, including Physics I, Anatomy and Physiology, Environmental Science, AP Biology and AP Chemistry*.

* It is recommended to take Physics I before AP Chemistry.

Goal: To prepare students for college level chemistry courses. Even students who take no further science classes will learn to problem solve, and will gain a solid understanding of chemistry and its applications.

TIPS FOR SUCCESS

- 1) Keep an organized notebook.
- 2) Circle any HW problems that need explaining, ask in class.
- 3) Don't be afraid to approach me to ask for help.
- 4) Keep a ***daily planner*** to record HW and upcoming tests.
- 5) Cultivate a positive attitude and a low stress lifestyle.

Chemistry I Curriculum and Skills

First Trimester (“Chemistry A”) Curriculum

Atoms, ions, molecules, isotopes, subatomic particles
Formula Writing and Naming
Significant Figures and Measurement
Moles, Percent Composition, Empirical Formula
Stoichiometry
Concentration, Including Molarity
Atomic Models (history, evidence, and structure), Electron Configurations
The Periodic Table, and Periodic Trends
Oxidation and Reduction

Second Trimester (“Chemistry B”) Curriculum

Ionic and Covalent Bonding
Organic chemistry
Solutions
Intermolecular forces
Energy
States and properties of matter
Gas laws and Kinetic Molecular Theory
Reaction Rates
Acids and Bases
Environmental Chemistry
Nuclear Processes