

# Chemistry I Honors Syllabus

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## Course Description

This laboratory course is an intense college preparatory course that explores the properties of substances and the changes that substances undergo. Students will investigate atomic structure, matter and energy, interactions of matter, and the properties of solutions and acids and bases. Students will be expected to apply research and algebraic skills in a technology and laboratory rich environment.

## Syllabus

Topic	TechBook	Standard
Unit 1: Matter  Classification of Matter, Physical and Chemical Properties, States of Matter, Phase Changes, Kinetic Molecular Theory, Kinetic Energy, Gas Laws	1.1 1.2 1.3 8.1 8.2 1.4	PS2.2 PS3.1 PS3.2 PS3.4 PS1.5 PS1.6
Unit 2: The Atom  Atomic Structure, Atomic Models, Isotopes, Electron Configuration, Nuclear Reactions, Periodic Table, Periodic Trends	2.1 2.6 2.2 10.3 2.3 3.1 2.4 3.2 2.5 3.3	PS1.11 PS4.1 PS1.12 PS1.9 PS1.10
Unit 3: Bonding  Ionic, Metallic and Covalent Bonds, Polarity, Naming, Formulas, Molecular Shapes, Molar Mass	4.1 5.1 4.2 5.2 4.3 7.2 4.4 PS1.8 4.5 PS1.1	PS1.13 PS1.14 PS2.1 PS1.8 PS1.1
Unit 4: Solutions and Mole Conversions  Concentration and Molarity, Acids and Bases, Solubility Rate, Mole Conversions	1.1 7.1	PS1.7 PS1.1 PS1.15 PS2.2 PS2.3 PS2.4
Unit 5: Chemical Reactions  Balancing Equations, Types of Reactions, Endothermic, Exothermic, Stoichiometry	1.2 5.3 5.4	PS1.2 PS1.3 PS1.4 PS3.3

## Required Materials

- ✓ Composition Notebook
- ✓ Chromebook
- ✓ Pencils/Pens & Notebook paper
- ✓ Scientific Calculator
- ✓ Colored pencils
- ✓ Glue stick or scotch tape (for science notebook)
- ✓ Lab fee of \$20.00.  
(The fee covers chemicals and materials needed for labs and activities. Students may apply for fee waiver to have the fee paid by the state if they are approved.)

## **Behavior Expectations**

I have high expectations for all students. I expect students to achieve academically to their fullest potential. I also expect students to contribute in a **positive** manner to the classroom. The following is a list of classroom rules.

- Come to class prepared and with a positive attitude.
- Be respectful and polite.
- Participate - be responsible for your own learning.
- Follow directions quickly.
- Lab rules must be followed at all times.
- All school rules apply in this class.

## **Grading Policy**

The student's overall grade is based on classwork, homework, quizzes, labs, activities, projects, and unit tests. Grades are determined using the point system. Grades are given in fraction form with the points earned over the points possible. Tests count more points than individual activities but overall account for approximately 50% of the student's grade. The total number of points earned is divided by the total number of points possible to calculate a student's average.

Grades are posted to Skyward in a reasonable time after an assignment is due.

## **Lab Assignments**

Students must turn in a signed lab safety contract and pass a lab safety quiz in order to participate in the lab. They must adhere to all safety rules during labs. If they can not follow safety rules, they will be required to sit and complete the make-up lab. Students that are absent during a lab must complete the make-up lab.

## **Absences and Makeup Work**

In Chemistry, each new lesson builds on previously learned information. Therefore, regular attendance is essential. If you miss class, it is **YOUR** responsibility to get necessary make-up work. Complete all work that you missed **within 5 days** of your absence. If you were absent more than 3 days, see me in order to make acceptable arrangements for turning in the missed work. Any work not turned in within the acceptable time period will be recorded as a 'zero'.

## **Extra Help**

There are a few options available if you believe you are falling behind and need extra help.

1. Come see me. I will be happy to tutor before school or after school as needed.
2. There are numerous 'on-line' help sites including: ChemThink, ChemMatters, Khan Academy, ChemFiesta, and YouTube. Ask me about videos for each topic.
3. Attend AAA.