



# Chemistry 2024-2025

## Class and Contact Information



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Room 211

### Course Overview:

Welcome to Chemistry! This course is an introduction to and survey of Chemistry. Chemistry is the study of the composition and properties of substances, and the changes that such substances can undergo. This course will provide an overview of basics needed to provide depth of understanding in chemistry. The overarching goal is for you to be able to make connections between the composition of matter that makes up all of life around us and the mechanisms by which that matter changes.

### Course Topics:

Topic	Description
<b>Chemistry Basics</b>	Introduction to Chemistry; Measurement; Significant Figures; Building Blocks of Matter
<b>Atoms &amp; Elements</b>	Atomic Theory; Atomic Structure; Electrons; Isotopes; Nomenclature
<b>Periodic Trends</b>	Trends on the Periodic Table; Electronegativity; Ionization Energy
<b>Bonding</b>	Types of bonds: Ionic, Metallic, & Covalent; Polar/Non-polar; Lewis Structures
<b>Chemical Reactions</b>	Chemical Formulas; Chemical Equations; Naming Compounds; Reaction Types
<b>Radioactivity</b>	Radioactive Decay; Half Life; Alpha, Beta, Gamma Reactions
<b>Stoichiometry</b>	THE MOLE! Limiting Reactant; Percent Yield
<b>Gas Laws</b>	Properties and Nature of Gases; Pressure & Force; Empirical Gas Laws

**NOTE:** *This may change in order and in content to best meet the needs of the class!*

## Required Materials

- Chromebook
- Notebook or Binder
- Chromebook Charger
- Pen or Pencil/Eraser

**Grading:**

Students will be evaluated using a **variety of assessment techniques**, including tests, quizzes, lab assignments, readings, projects, and homework. At the beginning of each unit, you will receive a packet. This packet will include guided note pages, activities, and labs. Packets will be turned in for a grade at the end of each unit. Notes, Labs, and assignments will be worth 30% of your grade and quizzes, tests, and projects will make up 70%.

Type	Description
Notes	Guided note pages will be provided in your packet. This will be graded based on completion. PowerPoints and other materials will be posted on Schoology after class each day.
Lab/Activities	Labs/Activities will be graded based on class participation and completion of worksheet.
Assignments	Additional worksheets will be given to help continue practice skills centered around the topic of the week. Graded on completion and accuracy.
Quizzes/Tests & Projects	Quizzes will be used to check understanding during the unit. Packets may be used on quizzes, but not on unit tests.

**Late Work:**

- I will accept late work up until 2 weeks after the due date OR the end of the unit.
- Any labs or activities missed during class time can be made up, but it is your responsibility to ask for this!

**Absences From Class:**

- If a student misses a class, it is **their own responsibility** to check Schoology or ask a classmate for notes or activities and complete them. I can always be reached by email with questions!
- Extensions may be given if a student provides a valid reason or other form of communication the day they return to school.

**Cellphones & Headphones:**

- While I do not ban cellphones or headphones in class, it is expected that you will be on task and working.
- If this becomes an issue or distraction for whatever reason, you may be asked to put it away or leave it on my desk for the class period.
- I will trust you to use cellphones & headphones appropriately until you show me that you cannot handle this responsibility.
- Cellphones are never allowed to be out during a test or a quiz. Any student using a phone during a test will receive an automatic zero.

**Class Expectations:**

- **BE RESPECTFUL** -- Respect the needs of everyone, from your best friend to your arch nemesis, as learners and people. You should be able to work with anyone in the classroom and not block their learning.
- **BE SAFE** -- Everyone should feel and be safe physically, mentally, and emotionally. Mind the things you do and say.
- **BE HELPFUL** -- "Helping your classmates is the highest form of scholar-ship." We are in this together, so help a classmate out.
- **LISTEN** -- Listen carefully. Not only is it respectful and important to safety, but you can learn something and help others. You get a little smarter too!
- Students will be asked to take a break if they are having a hard time working with these rules. Repeated offenses will result in a referral to administration and a phone call home.