



# Chemistry Instructional Plan: First Semester

## Course Overview

This year-long course explores the science of matter—its properties, changes, and behavior—through hands-on experiments and critical thinking.

## Contact Information

Teacher Name:

Email:

Phone:

## Classroom Expectations

The classroom is a respectful, safe, and collaborative learning environment where students are expected to be prepared, participate actively, and respect others. The goal is academic success and personal growth for all.

Expectation 1: Be prepared with supplies

- Prioritize attendance
- Be ready to learn everyday

Expectation 2: Participate actively and take responsibility for your learning

- Complete all assigned tasks
- Engage in class discussions, writing tasks, and learning opportunities
- Complete work on time

Expectation 3: Be respectful of the learning environment

- Follow all behavior guidelines
- Follow all laboratory safety and code of conduct expectations
- Report problems appropriately

Positive reinforcement and routines support success. If expectations aren't met, the process is: reteach → redirect → parent contact → office referral. Students are expected to act with maturity and respect, as if preparing for college. Parents will be contacted. If a student is unable to meet expectations after these preventative measures, an office referral will be made.

## Attendance Policy & Its Importance

Regular attendance is essential, with many of the lessons building on the last. Missing class can lead to gaps in understanding key concepts and laboratory procedures. Students that are absent are responsible for collecting and completing any missed assignments, including notes.

Scheduling and attending a tutorial session is recommended, but will be required if a student has missed a quiz or test. In the case of a missed lab, the student may be required to make-up the lab during tutorials, offered a related alternative assignment, or excused from the lab according to teacher discretion. Please notify the school if your child will be absent. For absences, students will have 2 school days per consecutive absence to make up missed work.

## Learning Objectives

**By the end of the first semester, students will:**

- Understand the development of the Periodic Table and apply its predictive power
  - Predict the properties of elements in chemical families
  - Analyze and interpret elemental data



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- Understand the development of atomic theory and apply it to real world phenomena
  - Describe the structure of atoms and ions
  - Construct models to express the arrangement of electrons in atoms using electron configurations and Lewis dot structures
- Know how to form ionic, covalent, and metallic bonds
  - Construct an argument to support how periodic trends can predict bonding
  - Name and write chemical formulas according to IUPAC nomenclature rules
  - Classify and draw electron dot structures according to molecular geometry as explained by the VSEPR theory
- Understand how matter is accounted for in chemical reactions
  - Interpret, write, and balance chemical equations according the law of conservation of mass

## Tutoring

Available mornings, during lunch, and afternoons on specified days. Exact dates will be posted on Class Dojo and Google Classroom. Students are responsible for seeking help when needed.

## Course Resources

- Chromebook (provided by Midland ISD)
- MISD-provided instructional materials
- Online resources (such as pHet labs, Google Classroom, etc)

## Grading Policy

*According to Midland ISD Grading Policy:*

Major assignments - 60% Minor assignments - 40%

Semester exams count as 15% toward the final semester grade

The summative evaluation of a student's grade during a recording period should be based on sufficient data collected in class in the form of various assessments. Regular and periodic assessment of student progress ensures a student has ample time for remediation.

Students must receive feedback on every graded assignment within three to seven days. Major assignments will receive feedback within ten days. Teachers will, at a minimum, communicate with students and their guardians every ten school days regarding upcoming assessments, classroom reminders, learning topics covered in class, and/or expectations. Regular communication may be electronic through the adopted Student Information System or other messaging applications. Teachers will maintain a parent communication log during each grading cycle.

Please feel free to reach out with any questions or concerns. We are excited to work together to make this a successful year of learning!

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**Please fill out the portion below and return this portion to your teacher.**

We acknowledge that we have read and that we understand the expectations of 11th Grade US History. We agree to contact the teacher should we have any questions or concerns regarding this instructional plan.

Parent Name: \_\_\_\_\_

Student Name: \_\_\_\_\_

Cell Phone Number: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Parent Signature : \_\_\_\_\_

Student Signature: \_\_\_\_\_

Date: \_\_\_\_\_