



HONORS CHEMISTRY SYLLABUS

Megan O. McCall, PhD

2024-2025

Course Description:

This high school course provides students with a study of the composition, properties, and changes associated with matter. The content includes classification and structure of matter, atomic theory, periodic table, bonding, chemical formulas, chemical reactions and balanced equations, behavior of gases, physical changes, acids, bases, and salts; and energy associated with physical and chemical change.

Knowledge Base:

Problem solving skills will continue to be developed in class.

Prerequisites: Honors Biology I and Algebra I

Objectives:

1. To become efficient problem solvers.
2. Gain the knowledge and skills necessary to advance to higher-level sciences.
3. Develop cooperative learning skills and the ability to work as a team.
4. Ability to apply skills developed in class to evaluate problems encountered in everyday life.
5. Develop an appreciation for the natural world.

Required Materials:

Textbook: Chemistry: Matter & Change (online access will be provided)

3-ring binder w/notebook paper & dividers [*required daily*]

Sharpened pencils [*required daily*]

Scientific calculator - required daily

\$15.00 Lab Fee (ASAP)

Grading System:

Your grade will be based on the following percentage scale:

- | | |
|--|-----|
| 1. Major Assignments (Tests, Quizzes, Assessments, Major Labs) | 60% |
| 2. Minor Assignments (Classwork, Warm Ups, Exit Tickets, etc.) | 40% |

Topics:

Mathematical/Chemical Foundations, Properties and Changes in Matter, Atomic Structure, Periodicity, Electron Configuration/Lewis Structures, Bonding/Nomenclature, Chemical Reactions/Stoichiometry, Gases, Solutions, Acids and Bases, Equilibrium, Thermochemistry

Resources: All daily assignments are posted on Schoology, labs, online text, powerpoint notes provided, practice problems, Alabama Math and Science Teaching Initiative labs, Harvard Science and Cooking Labs, selected websites and more!

Make-Up Work:

If you miss a test, quiz, or class work, you will be assigned a grade of zero in my grade book. All class and homework to be made-up, is due within three school days after your return. Any test & quiz, that must be made-up, should be completed within two weeks. Failure to meet this time limit will result in 10% late points for each day late up to 50%. *Make-up work is your responsibility.* I am happy to work with you as long as you follow up on your assignments with me asap - contact me via Schoology or email. **All make-up tests and quizzes will primarily consist of quantitative questions and will be an alternate format from the original assessment provided.**

Assignments:

Our daily assignments will be posted and completed on Schoology. Additionally, reminders will often be sent via Remind; therefore, it is essential that you are enrolled in the class' Remind to receive all notifications. JOIN Remind! Text @chem777a to 81010

Labs:

Lab is an integral part of the curriculum. Labs reinforce, explain, and facilitate understanding of the chemical principles presented in the classroom. They also enable students the opportunity to learn new skills, develop their cooperative learning behaviors, and strengthen their problem solving techniques. We will be in the lab approximately once every week, and lab activities will correlate with our objectives.

There *is* a lab fee for Honors Chemistry 1 – it's \$15 per student. This money goes toward purchasing materials that are consumed during the course, usually chemicals and glassware.

Lab safety is imperative in Chemistry. If a student is misbehaving in lab, disregarding the procedure, or otherwise endangering him/herself or others, I will not hesitate to remove him/her from the lab area. Full lab safety protocols (Flinn Science) will follow in a separate handout.

Guidelines

Please refer to our student handbook for additional expectations, discipline, student dress code and behavior!

If you have any questions or need anything, please contact me via email at momccall@mcpss.com or come and see me before you get frustrated if you are stuck on a topic. I am here to help and value your learning!

Both you and your parents should read this syllabus and sign it. Return this portion to me, signed, by August 9, 2024, and place the rest in your notebook.

Student Name __ (printed) _____

I/we have read the above syllabus and understand the expectations of the class. I will keep this syllabus in the front of my notebook and use it as a guide throughout the semester. A parent and I have signed this syllabus as a statement of accepting the challenges and responsibilities of this class in order to achieve my greatest academic potential.

Student signature _____ Date _____

Parent/Guardian signature _____ Date _____