

Chemistry 1 Syllabus

Over the course of this school year you will be introduced to the fascinating world of chemistry. You will get to explore this world through experiments, lecture, projects, note-taking, discussion and practice problems. Your success in this class will depend on your persistence, effort and attitude, as well as your ability to ask for help when concepts get difficult. I am excited to spend this year exploring chemistry with you! Please read through my expectations below.

Topics:

Quarter 1

General chemistry background and atomic structure

Intro to lab safety, lab procedures and equipment, intro to periodicity, organization of data, logic problems, lab unknowns, properties of elements, chemical families, atomic models, nomenclature, and history of chemistry.

Quarter 2

Compounds and Equilibrium

Testing and grouping of compounds; organic and inorganic acids, bases, salts, ionization, neutralization, concentrations, balancing equations, equilibrium, pH, hydrolysis of a salt, freezing point depression, LeChatelier's principles and oxides.

Quarter 3

Oxidation-Reduction (REDOX)

Activity of metals and metal ions, corrosion, anode and cathode reactions, two metal corrosion, oxidation numbers, balancing redox equations, activity of nonmetals and nonmetal ions.

Quarter 4

Qualitative Analysis

A four-week unit entirely devoted to identifying chemical unknowns in the laboratory.

Organic Chemistry (carbon compounds)

Hydrocarbons, functional groups, carbohydrates, polymers, structure and nomenclature.

Needed Supplies:

You will need to provide a 3-ringed binder for class. You should come to class prepared each day with a writing utensil and your chemistry binder. While we will not use it everyday, bringing a calculator with you to class everyday is also important (I will always have calculators in case you forget!)

Attendance:

Demonstrations and lab exercises are almost impossible to make up, for this reason being present and actively participating in class on a daily basis is incredibly important. For missed labs or demonstrations an alternative makeup assignment needs to be arranged and completed. Please make sure to reference the late work deadlines when turning in missing work, late work will not be accepted past these deadlines.

Electronic Device Policy:

Cell phones should be put away during class unless you have permission to use them. During work time you may use headphones to listen to music as long as it is not distracting to your peers. I understand that your phones are a very important part of your lives, but if they become a distraction during the class period I will put it in a paper-bag on your desk. I will respect your ability to use your phone for academic reasons unless you give me a reason to take your phone away.

Progress Reports:

Infinite campus is your tool for monitoring your progress. All assignments in IC will be labeled with the necessary tags, i.e. missing, incomplete, late. It would be in your best interest to check IC regularly to ensure that you aren't surprised by your grades. If you believe something is labeled wrong or there is a problem with your grade, it is YOUR RESPONSIBILITY to discuss this with me.

Academic Integrity:

You are expected to complete all of work with academic integrity, this means you are using appropriate resources as an aide, working within in a to figure out solutions and asking for help when necessary. Academic integrity is NOT, snapchatting pictures of answers, dividing up a large assignment among classmates, looking up answers using google or AI. This will not be tolerated and any evidence it occurs will result in an immediate zero for the assignment for anyone involved.

Grading:

A typical grading scale will be used. Below is an example of the points that are assigned to a normal array of assignments. These numbers are a guide and may change depending on the assignment.

Classwork/Homework assignment: 10-40 pts

Quizzes: 50 pts

Labs: 25-50pts

Tests: 100 pts

Projects: 100 pts

Participation: 10 pts

Late Work Policy:

An item is considered late/missing if it is not turned when I collect assignments. After that, you have one week where you can turn in the assignment for only a 20% deduction. After that you can turn in late/missing work for a 50% deduction up until the Hellgate late work deadline.

Homework:

There will occasionally be assigned homework, especially as we move into more complex concepts that require more time and attention. While homework won't be regular, if you do not finish an assignment in class it is your responsibility to finish it as homework.

Missed Assignments:

If you miss an assignment for any reason you need to immediately make a plan with me to make up the work. Please check google classroom for the day you have missed, there will be an agenda that can give you an idea of assignments that occurred in class. The best way to find out what you have missed is to ask me during downtime in class and reference the agenda you have already checked. For example: "Hi Miss Pepper, I noticed in the daily agenda from Thursday we did a lab in class, I was gone for a football game. How can I make up the lab?".