

Chemistry Syllabus

Welcome to Chemistry! I am very excited to have you in my class this year and look forward to getting to know each of you. This course is meant to be a rigorous introduction to chemistry. It is a very fast-paced course and requires a high level of math skills. For this reason, many students find chemistry to be a challenging course which will require you to study every night. If you have any difficulty throughout the year, please know that I am here to help you succeed! If you need extra help, you are welcome to arrange a time in advance or attend my office hours. Please remember, my door is always open. If your parents need to contact me, they can contact me using the information given below. Let's make this a great semester!

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GENERAL DESCRIPTION OF COURSE

This course will cover the basic concepts and skills of chemistry through lessons and demonstrations as well as qualitative, quantitative and experimental analysis. Concepts covered in this course include atomic structure, bonding, matter and its behavior, stoichiometry, kinetics, thermodynamics, and equilibrium. Emphasis will be placed on problem-solving techniques and higher-level thinking skills. Throughout the year, students will revisit the nature of science, or how scientific knowledge is acquired. Laboratory work will be an integral part of the course, and students will gain experience in safe and proper laboratory techniques, as well as techniques for writing and reading laboratory reports and papers.

SUPPLIES/MATERIALS

You will be required to maintain a chemistry binder which will include handouts, notes, homework, quizzes, and labs. The course also requires mathematical calculations. You may use your own graphing or scientific calculator, if you have one. If you do not have one, we have some that you may borrow in class, but you will need daily access to one at home as well. There are free apps and internet resources with these. See me if you need help.

A list of additional materials follows:

- 3-ring binder with a pocket in front (1" recommended for *only* chemistry)
- Pencil
- Notebook paper
- 10 dividers
- highlighter
- ability to print documents posted on Canvas or download, save, and mark-up digital copies on iPad. (I can show you how to use the Mark-Up Tool.) Note: if you are choosing to mark-up documents on your iPad, you may want to purchase a stylus or a pen with a rubber stylus tip. The Dollar Tree and other stores sell these for pretty cheap.

****When we return to school, our class could use donations of: boxes of non-latex gloves, boxes of tissues, dish soap, hand sanitizer, and Expo markers**

POLICIES AND PROCEDURES

Grading:

You will be assessed each quarter according to the following percentages:

Tests: 35% Quizzes: 20% Labs: 30% HW Packets & Assignments: 15%

Your semester grade will be calculated according to the following percentages:

Quarter 1: 37.5% Quarter 2: 37.5% Final Exam: 25%

Homework:

Since chemistry can be an extremely challenging subject, it is important that you practice each concept and/or calculations outside of class. What makes sense in class may not make sense when you try it on your own which is why homework is so important to help you determine your problem areas before a test/quiz. Students who do their homework consistently get higher grades on assessments. **Therefore, you will have homework just about every night, so expect to spend time every day doing an assignment for chemistry.** You are expected to complete all homework assignments on time. If you do not complete your homework, you will still be expected to actively listen and participate as we go over the assignment in class. Homework/Unit packets will be collected on test day and ARE NOT ACCEPTED LATE UNLESS THERE IS AN EXTENUATING CIRCUMSTANCE WITH A PARENT CONTACT. If you are absent on test day, unit packets will be due on the day you return since they should have been completed prior to your absence.

Test and Quizzes:

Quizzes will be administered throughout each unit to gauge understanding and progress. A unit test will be administered at the culmination of each unit. These tests will include content covered in class and labs as well as assigned homework problems and readings.

Laboratory:

You will be learning laboratory writing and reading skills throughout the semester and will be required to complete pre- and post-lab calculations and questions. Laboratory reports count almost as much as a test, so it is very important that you complete your lab report and turn it in on time. Labs will be accepted after the due date with a penalty of 10% each day it is late and will not be accepted after it is a week late. Lab report expectations and guidelines will be discussed in class.

Notebooks:

Students should keep their notebook organized throughout the semester so you have information organized and ready to take your final exam. Each unit packet will be put in the notebook along with any other worksheets or quizzes from that unit. You are expected to keep your notebook up to date. The following are the units that will be covered in this course:

- Unit 1 – Safety
- Unit 2 – Measurement
- Unit 3- Atomic Structure
- Unit 4- PT & Bonding
- Unit 5 – Nomenclature
- Unit 6 – Chemical Reactions
- Unit 7 – Chemical Quantities
- Unit 8 – Stoichiometry
- Unit 9- Thermo & Gas Laws
- Unit 10 – Equilibrium & Acid/Base

Late Work Deadlines:

Work that is submitted after the due date will be penalized by 10 percent per day, with the exception of unit packets which are not accepted late. (See section titled “Homework” above.)

Classroom Behavior:

You are expected to behave in a mature and responsible manner. You must come to class with the expectation that you will work rigorously and solidly during the entire class period. I expect the following from each of you:

- Be on time.
- Be prepared.
- Be respectful.
- Adhere to all classroom and school rules and procedures.

*All students are required to sign a safety contract prior to beginning lab study. Chemistry laboratory work involves the use of dangerous chemicals and expensive equipment. These must be handled safely and with the utmost care and understanding. **You will be removed from the laboratory if you act in a reckless or unprepared manner.** Any student removed from lab will be given an alternate assignment with a 10% penalty.*

I have read and understand the guidelines listed in this course syllabus and agree to follow them.

Student Signature _____ Date _____

Parent Signature _____ Date _____