

Honors Chemistry Summer Assignment

Honors Chemistry Overview

Honors Chemistry is a rigorous course that covers the majority of the material that would be taught during the first semester of a college chemistry course. While it covers the same standards as taught in “regular” Chemistry, the material covered goes into great depth with additional topics and additional labs. This is to prepare students to be successful in AP Chemistry and other advanced sciences.

Highly Recommended Prerequisites:

A or B in Algebra 1 or Geometry and an A or B in Honors Biology

Summer Assignment

The Honors Chemistry Summer Assignment for Mrs. Homburger will be in the Google classroom. Please follow the instructions to join the “class”. You can join the class today if you choose, and the summer assignment is already loaded.

1. Go to classroom.google.com
2. Sign in with your SCHOOL email
3. Sign in with your school password
 - a. Just as you would sign into a computer at school
4. In the upper right corner, click on the plus sign
5. Click Join Class
6. Enter the code: [cvw2lvt](#)

The summer assignment is multiple parts. Make sure you click on the Classwork portion of the assignment and do not rely just on the stream. There are 6 parts so please make sure you complete each part by the first day of school (regardless of which semester you have me). You will not turn anything in by paper. Everything will be turned in on Classroom.

Assignment is due on the first day of class for the 2022-2023 school year. Even if you have this class in the second semester, it is due on the first day of class for the school year. Do NOT leave the Summer Assignment Classroom until Mrs. Homburger has assigned you a grade for the summer assignment.

Email Mrs. Homburger at homburger.kristy@lee.k12.al.us with any questions. (Note: Make sure that your computer or phone does not autocorrect my last name. If it does, and you don't catch the mistake, then the email will never reach me.)

Part 1 - General

- Join Classroom
- Complete the question on Classroom
- Take the questionnaire

Part 2 -- Elements

Make flashcards using quizlet of the formulas and names for the below elements. They are listed by number. You need to look up the element and symbol. Make sure the symbol is written correctly. You are not required to memorize any of the numbers. Make sure you are spelling the names of the elements correctly. Upload the link of the quizlet on the part that states “Quizlet turn in”

Elements: Elements 1-38; 47, 50, 53-56, 79, 80, and 82

Part 3 – Introduction to Chemistry

- Watch the YouTube Video linked on Classroom titled “Introduction to Chemistry” (Watch only the first minute)
- Watch the YouTube Video linked on Classroom titled “What is Chemistry?”
- As you watch the videos, go to the linked Google Form and answer the questions. The form is titled “Video questions”. These questions will address both videos.

Part 4 – The Scientific Method

The scientific method is a logical, systematic approach to the solution of a scientific problem. Although the precise steps of this method can vary widely, requirements include making observations, testing hypotheses, and developing theories from results. Watch the MythBusters clip (linked on Google Classroom) that provides an example of this process. Answer the questions on the Google Form regarding this clip and the scientific method. There are a few questions that you will have to use a reliable internet source to find definitions. You must provide the website link of which site you use.

Part 5 – The Metric System and Rearranging Equations

In Chemistry, we use the metric system to report data for several of our experiments. In the scientific world, we have a system called the international System of Units (SI), which is commonly known as the metric system.

It is expected that you will be able to perform basic conversions between metric prefixes. It is also expected that you will be able to rearrange basic algebraic equations (to solve for one missing variable). These are basic skills that I expect you to have. While you may not understand what the equation represents, you should be able to rearrange and solve for an unknown variable.

For this part, you have multiple equations to solve for, as well as some conversion between units. You are to complete this part on your own paper, or using Kami, SHOWING ALL WORK, take a picture, and upload it into Classroom.