

Welcome to Chem II AP

We hope that you are looking forward to the challenge and thrill of college level chemistry as much as we are looking forward to guiding you to a successful year. There is a lot of material that we need to cover next year, so it is important that we hit the ground running.

Thus, there are some topics that you should remember from your first year of chemistry that you need to review this summer so that we all start with the same basic background. You should arrive in September with a mastery of the basics of significant digits, scientific notation, proper use of units, simple unit conversions, factor-label method (dimensional analysis) and the methods used to analyze laboratory data. You must know the names, symbols and charges of the common monatomic ions. You do not need to memorize the polyatomic ions, because a list of common polyatomic ions is attached. Be able to write formulas with charges when given the name and vice-versa. You also need to know how to name acids (such as hydrochloric acid and sulfuric acid), which you might not have covered in 1st year chem.

Your summer assignment (Labeled as HW 1&2-1) is to do the assignment posted on Google Classroom. It consists of three handouts-textbook questions, naming ionic/molecular substances and naming acids. You are to print out all three documents and complete them. **The summer assignment is due on the first day of class, Thursday, Sept 10th.** It will be checked and counted as a 10 point homework assignment for the 1st marking period. (Normal daily homeworks will be worth 2 pts during the year.) We will review the full summer assignment on the first two days of school. **There will be a full period test on the contents of the summer assignment on Wednesday, September 16th.**

The summer assignment covers material from Chapter 1 and 2 of the Chang Chemistry textbook. A **digital copy of the Chang textbook** is posted on the **Google Classroom** that has been set up for AP Chem. It would be helpful for you to at least skim through the appropriate pages in the textbook while you are completing the assignment. You may find that you remember most of this content, but if you need a refresher, read the text more carefully. **To get full credit for the summer assignment (as well as during the year), you must show your work.** For most calculation questions it is best that you use the factor label method (unit conversions or dimensional analysis). The **factor label method** is crucial in this course because it allows you to show your work for multistep calculations quickly, clearly and fully. It is expected that EVERY number written will have **units** and all final answers will have the proper number of **significant figures**. The **final numerical answers to the summer assignment** and additional study resources will be posted on Google Classroom around the middle of August. **Please email Mrs. Bailey or Dr. Casagrande with any questions if needed.**

~~As far as labs go, we will meet during Periods 8+9 on all Thursdays. Starting Thursday, Sept 17th, lab will run after school to about 4:30 pm—sometimes a little earlier and sometimes a little later. Though this is a large time commitment, you will leave lab with your lab write up completely done. Athletes are expected to be in lab after school unless there is a game or a meet. However, if needed, we can be flexible on a case-by-case basis.~~

Summary of the first few days of school:

Thu. September 10: **Full summer assignment (all three handouts) will be checked at the start of class. (10 pts).**

In class, we will discuss the summer assignment.

You will have another homework to do this Wed night.

Fri. September 11: In class we will continue to discuss Chapter 1 and Chap 2. We will continue discussing the summer assignment and other hw from Thursday. You will have another HW to do this night.

Monday, September 14: Last chance to discuss Chap 1+2 in our after-school “lab” class.

Wednesday, September 16: **TEST: Chapters 1+2 (70 pts)** We will start Chapter 3 (stoichiometry) as an “asynchronous” video assignment after the test.

Enjoy your summer...see you in September!

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