Welcome to the AP Chemistry Summer Work page. Here you will find links to the material that you will be required to know at the end of the summer. Most of the material is a review, so you should be able to use your notes from your previous Chemistry class to help you.

Your summer work will be in two parts.

Part 1: Conceptual Review

As this section should be a review of material covered in your previous chemistry class, I ask that you read and study the notes linked below. You should also complete as many problems in as many of the problem sets as you feel necessary to be proficient in the review material. This part is the foundation of the AP Chemistry class and is not assessed explicitly in the AP curriculum, but your knowledge of these concepts is paramount to your success.

Conceptual Review Notes	Conceptual Review Problem Sets	Conceptual Review Problem Set Key
1. Notes Part 1 2. Notes Part 2 3. Notes Part 3 4. Notes Part 4	Significant Figures Unit Conversions Atomic Structure Elements and Symbols Inorganic Nomenclature Part 1 Inorganic Nomenclature Part 2 Inorganic Nomenclature Part 3 (Acids) Inorganic Nomenclature Part 4 Review Summary	Answer Key

Part 2: Unit 1 - Chemical Reactions

For this section, you should complete all 9 parts of the Unit 1 Problem Pack. Each pack contains:

1. A short section of notes to read
2. A problem that I have solved for you
3. A problem with a linked video so you can follow along as I solve the problem.
4. A series of problems you are asked to solve on your own.

Each section can be completed in a variety of ways:

- You may work on paper and complete all the problems that way.
- The problem set can be printed and completed.
- The problem set can be imported to an annotating software on a tablet (notability, goodnotes, etc) and completed digitally.

I will not be collecting the summer work, but you still must complete it before school starts because ***you will be formally tested on the entirety of the summer work at the beginning of the school year. This should mostly be a review from your last chemistry class as well. Please use your resources from your previous class to aid you in your work.***

Unit 1 Problem Pack
1. Introduction to Reactions
2. Net Ionic Equations
3. Representations of Reactions

4. **Physical and Chemical Changes**
5. **Stoichiometry**
6. **Introduction to Titration**
7. **Types of Chemical Reactions**
8. **Introduction to Acid-Base Reactions**
9. **Oxidation-Reduction Reactions (REDOX)**

If something is more difficult and you need more references (***aside from the notes and videos linked***), you should find our ***TextBook here on OpenStax*** (download it as a pdf for free). You can also find relevant review videos on any of the topics on YouTube. Trusted YouTube sources include:

- Tyler Dewitt
- Khan Academy
- Professor Dave Explains
- The Organic Chemistry Tutor
- Melissa Maribel

If you need some videos on the Unit 1 Content, you can find some videos here that have been pulled from the AP Classroom page.

You could also email me (jgadsongill@wma.org), but if you decide to email me, please recognize that I will be checking my email only about twice per week as I plan to be spending some time unplugged and traveling with my family.

Finally, please do not wait until the week before school starts to look at the summer work because *you will be formally tested on the entirety of the summer work at the end of the first week of classes.*