

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

For this section, I ask that you read and study the notes linked below. You should also complete as much of the problem sets as you feel necessary to master 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
<ol style="list-style-type: none"><li>1. <a href="#">Notes Part 1</a></li><li>2. <a href="#">Notes Part 2</a></li><li>3. <a href="#">Notes Part 3</a></li><li>4. <a href="#">Notes Part 4</a></li></ol>	<a href="#">Significant Figures</a> <a href="#">Unit Conversions</a> <a href="#">Atomic Structure</a> <a href="#">Elements and Symbols</a> <a href="#">Inorganic Nomenclature Part 1</a> <a href="#">Inorganic Nomenclature Part 2</a> <a href="#">Inorganic Nomenclature Part 3 (Acids)</a> <a href="#">Inorganic Nomenclature Part 4</a> <a href="#">Review Summary</a>	<a href="#">Answer Key</a>

## Part 2: Unit 1 - Atomic Structure and Properties

For this section, you should complete all 8 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 taken into notability and completed that way, or you may choose to work on paper. 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 semester.***

Unit 1 Problem Pack	
1. <a href="#">Moles and Molar Mass</a>	We Do Video
2. <a href="#">Mass Spectroscopy of Elements</a>	We Do Video
3. <a href="#">Elemental Composition of Pure Substances</a>	We Do Video
4. <a href="#">Composition of Mixtures</a>	We Do Video
5. <a href="#">Atomic structure and electron configuration</a>	We Do Video
6. <a href="#">Photoelectron Spectroscopy</a>	We Do Video
7. <a href="#">Periodic Trends</a>	We Do Video
8. <a href="#">Valence Electrons and Ionic Compounds</a>	We Do Video

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 search up Tyler Dewitt, Khan Academy, or Professor Dave Explains (all on YouTube). You could also email me (jgill@tampaprep.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.

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.***