

Welcome to Advanced Placement Chemistry!

Summer Assignments



PLEASE READ THROUGH THIS ENTIRE SHEET BEFORE STARTING ON THE ASSIGNMENTS.

AP Chemistry is a fast-paced course. In order to have time to cover all topics and to spend time reviewing problems in class, it is important that you start the year with a good understanding of Chemistry 1 topics. We do not have time to completely review everything you learned before. You are therefore responsible for the material in Chapters 1, 2, and 3 of the textbook. Most of this material was covered in Chemistry 1 Honors and will not be reviewed extensively in AP Chemistry. You are also responsible for some of the material in chapters 7 and 8.

1. Sign out a copy of the AP textbook before school finishes.
2. Check out the class website at <http://kitchenerchem.tripod.com> to find useful links, tutorials etc. Do NOT start printing class notes as they may be changed before you need them.
3. Review the material in chapters 1, 2, and 3 of your textbook.
4. Make a study chart/guide for each chapter you reviewed (3 separate study guides in total) as follows:
 - ❖ Each study guide should fit on one side of an 8.5 x 11 sheet of plain paper (computer printer paper is fine).
 - ❖ You may type or hand write but it must be neat and concise.
 - ❖ The guide should contain all important information, formulas etc. for that chapter so that anyone could use it to review the material before an exam etc.
5. Work the following end-of-chapter problems:

Chapter 1: Questions 32, 34, 40, 70

Chapter 2: Questions 52, 58, 60, 62, 64, 68, 70, 72, 76, 78

Chapter 3: Questions 34, 42, 44, 48, 52, 56, 58, 60, 64, 68, 76, 80, 82

6. Make a fourth study chart (this one will be shorter) that gives the following scientists together with their main contributions to our understanding of atomic theory. Most of this information can be found in chapters 7 and 8 of your book.

Dalton	Bohr	Heisenberg
J.J. Thomson	Planck	Pauli
Rutherford	DeBroglie	
Millikan	Schroedinger	

- All assignments are due the first day of class and will be for a class grade.
- You must work through these assignments yourself. Copying other students' answers will result in a zero for all parties involved.
- It is strongly recommended that you set aside time to work through these assignments gradually over the summer and do NOT leave them until a few days before school starts.
- If you do not understand a question, look at the examples in the book and try to work through it. Many online resources are available to help you. Some of the links are on the class website (see above). I am aware that not all students took Chemistry 1 with the same teacher and that some topics may not have been covered extensively in all classes, but you should at least attempt to solve every problem.

Spend some time relaxing so that you're ready for a rewarding and exciting new school year.