

Welcome to AP Chemistry!

Congratulations on a successful year in Honors Chemistry! I am looking forward to starting our journey into AP Chemistry!! The purpose of the summer assignment is to exercise and maintain the knowledge and skills developed in Honors Chemistry. Everything you see in the summer assignment is material that you learned in Honors chemistry, it is a true review. Be sure to pace yourself throughout the summer so that you do not have to cram it all in the last few days.

You will be focusing on the first 3 chapters in the AP Chemistry textbook. For each chapter you will complete the following: 1) read & outline (see example below); 2) define key terms (see example below); 3) answer assigned chapter review questions

Textbook Outline Example

Chapter Section Title

A. Bold Title

- a. Detail #1
- b. Detail #2

1. Sub-Section Title

- a. Detail #1 - Summarize the 1st Paragraph (1 sentence)
- b. Detail #2 - Summarize the 2nd Paragraph (1 sentence)
- c. Detail #3 - Summarize the 3rd Paragraph (1 sentence)

2. Sub-Section Title

- a. Detail #1 - Summarize the 1st Paragraph (1 sentence)
- b. Detail #2 - Summarize the 2nd Paragraph (1 sentence)
- c. Detail #3 - Summarize the 3rd Paragraph (1 sentence)

B. Bold Title

- a. Detail #1
- b. Detail #2

1. Sub-Section Title

- a. Detail #1 - Summarize the 1st Paragraph (1 sentence)
- b. Detail #2 - Summarize the 2nd Paragraph (1 sentence)
- c. Detail #3 - Summarize the 3rd Paragraph (1 sentence)

*Do the number of details that there are paragraphs in the sub-section

*Don't forget to look around the page and use the pictures and diagrams to help you understand – you can also copy important figures, illustrations etc. as a replacement for the “details” in the outline

Section Vocabulary and Definitions

Word	Book Definition	Your Own Definition
Ex. A bold word in the science textbook	The definition found in the dictionary or the textbook glossary	A definition that you state in your own words so that you understand the word

Chapter Review Questions: Be sure to number each question & show your work.

Chapter 1 Chemical Foundations-pages 33-36

18 Questions

Topic	Questions
Significant Figures & Unit Conversions	23, 25, 27, 28, 30, 32, 33, 36, 41
Temperature	49
Density	54, 56, 61
Classification & separation of matter	66, 67, 69, 70

Chapter 2 Atoms, Molecules, and Ions-pages 75-78

18 Questions

Topic	Questions
Development of Atomic Theory	15, 19, 22, 25, 26
Nature of the atom	33, 39, 40, 43, 45, 48, 51, 55
Nomenclature	62, 66, 68, 71, 72

Chapter 3 Stoichiometry-pages 123-126

20 Questions

Topic	Questions
Atomic mass & Mass Spectrometer	21, 22, 25
Moles & Molar Mass	27, 30, 31, 33, 37, 39, 41, 45, 51
Percent Composition	54, 56
Empirical & Molecular Formulas	59, 60, 61, 62
Balancing Chemical Equations	75, 77

Email me if you have any questions or need any help – johnsonmc@calvertnet.k12.md.us

You can also message me in remind - **Please register for our class remind by texting @3k4476 to the number 81010**

This assignment will be due on the first day of class. We will also be having a test on the material covered in the summer assignment within the first 5 days of class.

I can't wait to see you in September! Good luck and have a great summer!!