

Science

AP Chemistry

Your assignment is:

1. First of all, you need to **thoroughly read** Chapters 1 and 2 of your textbook (Zumdahl Chemistry Ninth Edition AP Edition ISBN-13:978-1-133-1110-3 or Zumdahl Chemistry Tenth Edition AP Edition ISBN-13:978-1-305-957732). Wofford will also have this book for purchase before school starts. The 10th Edition of this book has been published and I do have a copy. The main difference is the problem numbers. I will try to note these differences in all assignments that I make. Either the 9th edition or the 10th edition is fine.

You are responsible for the material in these 2 chapters. **It will be covered in your first test. We will not spend class time on this because it is a review of concepts taught in Honors Chemistry**, and we need to “hit the ground running” with new material in order to get through the tremendous amount of content you need to learn in this course. To show me that you have mastered this material, the following problems are due **ON THE FIRST DAY OF SCHOOL, August 17th**. This assignment will be graded for accuracy. Points will be deducted for late assignments. Alternatively, you may complete this assignment on Google Classroom.

If you opt for completing online, the questions will be on the GC form, so technically you will not need to have a book. Please be aware that GC will count your answers wrong unless they are entered exactly like I enter the answers. Please do not worry about that, I will go through every answer and give you credit for correct answers.

9th edition:

Chapter 1 (pp.34-38): #30,33,36,39,76,79,83,86,87

Chapter 2 (pp.74-77): #36,56,58,60,64,70,84

10th edition:

Chapter 1 (p.34-34d): #34,37,40,43,80,83,87,90,91

Chapter 2 (pp.67-67c): #40,60,62,64,68,74,88

What if I don't have a book and don't think I can get one until right before school starts?

You may use your Honors Chemistry text or the internet to review the following topics:

- Significant Figures
 - Dimensional analysis – converting between different forms of measurement like grams to kilograms, inches to meters and milliliters to liters
 - Density
 - Classification of matter – solid, liquid, gas
 - Law of conservation of mass/matter
 - Symbols for atoms and how to determine the number of protons, neutrons, electrons, and mass number
 - Ions – will atom form a cation or anion and what the charge will be?
 - Periodic table – vertical group names (alkali metal, alkaline earth, halogen, noble gas and horizontal period (lanthanides, actinides)
 - You should also familiarize yourself with polyatomic ions in Table 2.5 on pg.65 (9th ed) and pg.58 (10th ed).
 - Make sure that you understand ionic formulas. For example, AlCl_3 and Na_2O . How do you determine the subscripts?
2. I am also providing a copy of the periodic table used in AP Chemistry on Google Classroom. You will notice that it does not have element names, only symbols. It is important that you review element names and symbols over the summer and are comfortable using this table.

I am really looking forward to teaching each of you. Take time to prepare over the summer. It will definitely pay off for you. AP Chemistry is a tough course, but you are up for the challenge if you start off the year on the right foot.

Mrs. Greer

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