

AP Chemistry
Summer Assignment 2011

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Hello AP Chem. Students:

Below is your summer assignment. The assignment is an overview of information that we covered in chemistry this year. You will see that we will be revisiting many of the same topics this year, but in greater depth. The purpose of the summer assignment is to keep up your fluency in chemistry so we can quickly move onto new and more complex material.

Most of the questions I assigned have the answers given in the back of the text. Please utilize the answers in your review and completion of the assignment. You will find some of the problems difficult. I ask you to show all work correct or not. You will be assessed on the completion of the summer assignment questions with less emphasis on correctness. Make notes of problems that you are unsure of with specific questions so I can discuss them in class. The summer assignment is extensive, so discipline your self by starting early as to gauge the time required. If you wait to the last moment you will be unable to complete the summer assignment on time!

Contact me via E-mail or phone if you have any questions. Please don't expect an immediate response since I am not always home during the summer.

The summer assignment will be due and graded in the three stages listed below. The first week of school will dedicated to reviewing the material on the summer assignment. Your first test is based on the summer assignment.

Save your original copy to bring class. Submit **a copy** to me either by "snail" mail or E-mail it as a scanned image, word, or PDF document .

Due Dates: **June 30:** Just e-mail your summer e-mail address so I can set a group mailing list for updates during the summer. Easy!
 July 30: Chapters 1, 2, 3, 4
 Aug 30: Chapters 5, 7, 8

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Text: Chemistry, *Sixth Edition*,
Zumdahl & Zumdahl Houghton Mifflin Company 2003

Chapter 1, Chemical Foundations

Read chapter and define all bold faced terms.

Chapter 2, Atoms, Molecules, and Ions

Review Questions Pg 74-79, # 4, 5, 6, 10, 11,12, 13, 14, 17, 20, 21, 27,43, 45, 49,
55, 57, 59, 65, 69, 71

Chapter 3, Stoichiometry

Review Questions Pg 121-130, #4, 5, 6, 7, 10, 13, 16, 21, 27, 29, 51, 53 , 59, 67,
75, 85, 91, 95

Chapter 4, Types of Chemical Reactions and Solution Chemistry

Read chapter and define all bold faced terms.

Chapter 5, Gas Laws

Review Questions Pg 232-239, # 10, 31, 33, 35, 41, 49, 51, 93, 95

Chapter 7, Atomic Structure and Periodicity

Review Questions Pg 336-344, # 4, 5, 12, 15, 17, 19, 31, 33, 39, 41, 43, 45, 51,
61, 62, 71, 85, 87, 93, 95, 113

Chapter 8, Bonding: General Concepts

Review Questions Pg 402-410, # 13, 15, 17,19, 21, 23, 27, 29, 33, 37, 61, 63,
77 (exercise 61 only), 83, 87, 93

I am looking forward to working with you this upcoming year.

That is all. Have a great summer!

Sincerely,
David J. Kientzler, Ph.D.
Aka "Dr. K."