POSNACK

S C H O O L

AP Chemistry Summer Assignment

Dear students,

Welcome to AP Chemistry! This class is going to be extremely interesting, challenging, fast-paced, and hopefully fun. It is impossible to cover all of the material required by AP in the time allotted, so you have some work to do over the summer. You have two main areas upon which to focus. The first area will be a review of specific topics covered in Honors Chemistry such as: **Conversions; Stoichiometry; Ionic Compounds; Covalent Compounds; Experiments/developments/theories by Thomson, Planck, Rutherford, and Bohr and how their experiments led to discovering the parts of the atom; aqueous solution reactions; and gases.** I will not be covering these in class as you have already learned them in Honors Chemistry, so it is up to you to prepare yourself for a challenging summative as soon as you return.

The second set of topics are conceptual topics of which you should have a decent understanding before entering class, for I will go through these topics quite quickly the first month of class. **These topics can be found in your online AP textbook in Chapters 8, 9, and 10**. I will always expect you to have started studying before I cover a topic in class, so this will be your chance to get into good habits.

To be assessed immediately upon return from summer vacation:

Chapter 2: Atoms, Molecules, and Ions

Chapter 3: Mass Relationships in Chemical Reactions

Chapter 4: Reactions in Aqueous Solutions

Chapter 5: Gases (sections 5.1-5.4 only. We will pick up with gas stoichiometry in class).

Chapter 7: Quantum Theory and the Electronic Structure of Atoms

To be covered in class:

Everything Else! :-)

ASSIGNMENT: **In the chapter review question 2.5 is question #5, 2.18 is question #18 etc.** Please answer each question writing as much detail or calculations as possible.

- **Chapter 2**: p. 68-74 #5, 9, 16, 22, 28, 36, 38, 44, 50, 58, 77, 82, 85, 110, 114
- **Chapter 3**: p. 107-111 #4, 5, 6, 9, 10, 13, 15, 21, 25, 31, 32, 34, 40, 43, 48, 58, 60 (c, d, e, f, g, k only), 70, 79, 87, 88, 94
- **Chapter 4**: p. 158-161 #2, 5, 10, 13, 23, 54
- **Chapter 5**: p. 215-216 #5, 7, 13, 18, 21, 23, 24, 27, 29, 31, 33,
- **Chapter 7**: p. 315-318 #1, 2, 5, 7, 8, 9, 13, 16, 24, 44, 71, 76, 79, 87
- **Chapters 8, 9, and 10**: Please do all in-chapter Practice Exercises using the Example Problems as a guide.

You can find your digital textbook available on McGraw-Hill Connect. Please see the link below for registration instructions. You will receive a registration code when you buy your book from the Posnack book store. Have a great summer! Dr. Scott Fleischer.

Student registration information course

AP Chemistry with LearnSmart

Instructor

Scott Fleischer

Section

AP Chemistry 2017-2018

Having trouble registering? Get help here: http://bit.ly/StudentRegistration