

Memo

Date: 5/29/2018
To: Members of the AP Chemistry Class of 2018-2019
From: Susan Saylor
RE: Summer Assignment

I am very excited that you have chosen to take AP Chemistry during the 2018-2019 school year. As you know, chemistry is a subject that requires the student to know a wide range of information. Chemistry also involves a large vocabulary and requires a student to perform a wide variety of calculations. In order to prepare each student to take the AP Chemistry test in May, this class is taught at a fast pace. It requires each student to keep up with the daily assignments and to ask questions when there is any confusion. It is also recommended that students work together on assignments (except lab reports) when possible. The goal of this class is to prepare the student to take one of the most difficult and demanding AP tests that are given. It is expected that each student take the AP test in May.

In order to get a jump-start on the extensive amount of information that is required for the AP test, each student is expected to complete an assignment over the summer months. Most of the information in this assignment is a review of your first year chemistry class. A **textbook** (Kotz, Treichel, and Townsend, 8th Edition) will be needed and should be picked up prior to leaving for the summer. You will need to see Mrs. Whitacre for your textbook.

This assignment will be collected. A **test** that covers the first two chapters in the book will be given during the second week of class. A **test** on chapters 3 and 4 will be given three to five classes later. Please feel free to contact me via e-mail at saylors@fcpsk12.net if you have any questions. I will also be answering questions the first few days of school. I look forward to working with you next year.

Sincerely

Dr. Susan Saylor

Chapter 1: Basic Concepts of Chemistry

- It is suggested you read all sections and take notes while reading.
- Be familiar with definitions of bold face words.

Ch. 1: pg 20-23 #'s 7, 23, 43

Ch 1: pg 45-49 #'s 19, 21, 37, 48, 56, 63

Chapter 2: Atoms, Molecules, and Ions

- It is suggested you read all sections and take notes while reading.
- Be familiar with definitions of bold face words.
- Parts of Periodic Table, Isotopes, and atomic mass/number
- Be able to name and write formulas for all of the following types of compounds.
 - a Binary ionic compounds
 - b Ionic compounds containing polyatomic ions. **Note:** this requires the memorization of table 2.4.
 - c Binary molecular compounds (the book calls these binary covalent compounds).
 - d Acids

Ch. 2:

#'s 7, 30, 50, 52, 58, 59, 76, 80a, 92, 103, 108, 131, 139

Chapter 3: Chemical Reactions

- It is suggested you read all sections and take notes while reading.
- Be familiar definitions of the bold face terms.
- Balancing reactions
- Introduction to Equilibrium
- Aqueous, Precipitate, acid/Base, Gas Forming, Redox

Ch.3:#'s 14, 19, 36a, 45a-c, 48, 49, 52, 56a, b, 61, 83, 84, 88, 90

Chapter 4: Stoichiometry

- It is suggested you read all sections and take notes while reading.
- Stoichiometry, Limiting Reactant, % Yield
- Concentration and pH
- Spectrophotometry

Ch.4 #'s 5, 21, 39, 44a, 45, 49, 54, 65, 68, 74, 75, 105,

Note: Students should also have a graphing calculator (TI-83 plus is recommended).

Any questions? My e-mail is saylors@fcpsk12.net or

I will answer any questions during the first few days of school on this assignment