

AP Chemistry Summer Assignment 2017-2018

Students will complete the following summer assignments. This will serve as a review of basic concepts to prepare for AP Chemistry in the fall. In September we will begin covering the basics of chemistry very fast by just filling in important details.

All problems assigned must be completed as follows: Please use a **pencil**. All work must be shown for full credit. Final answers are to be labeled with proper units, and reported using the correct number of significant figures. **Circle** your final answer.

This assignment is due Monday, September 12, 2016.

Directions: Using your textbook "Chemistry: Structure and Dynamics", complete the following assignment (answers can be found in the back of this textbook):

1. Chapter 1 – Elements and Compounds

Read Chapter 1 pp 2 – 25

Study all exercises highlighted in blue

Do problems: p. 27 - #27, 29, 31, 53 through 65 odd, 81 through 93 odd, 103, 105, 107.

2. Chapter 2 – The Mole: The Link between the Macroscopic and the Atomic Worlds of Chemistry

Read Chapter 2 pp 32-62.

Study all exercises highlighted in blue

Do problems: p. 63 # 27, 29, 45 through 67 odd, 85, 87, 91 through 99 odd, 103, 105, 119, 127, 129, 131, 133, 135

3. "Common Polyatomic Negative Ions", Table 1.6 on p. 16 of the textbook needs to memorized.

A nomenclature quiz using these ions will be given in early September.

Using your workbook "Chemistry- A Guided Inquiry" complete the following assignment: (Do not write in this book. Complete the assignment on a separate paper. Answers are not provided.)

4. ChemActivity 31 Empirical Formula

Read ChemActivity 31 Empirical Formula p 178

Complete Critical Thinking Questions 1-7 on p 179

Complete Exercises 1-4 on p 180

Complete Problems 1-3 p 180