

AP CHEMISTRY SUMMER ASSIGNMENT August 2009 (May 19, 2009)

Chemistry, Raymond Chang, 9th edition 2007, McGraw-Hill, (ISBN: 978-0-07-326827-9). There are many ISBN numbers. It is IMPORTANT that you purchase the 9th EDITION. It is available from McGraw-Hill (1-800-334-7344), Varsity, Barnes & Noble website, and Amazon.

You may work with your classmates on this assignment.

Check your answers on page **AP-1** (Answers to Even-Numbered Problems) at the back of your text.

Homework will be collected at 8:20 on Thursday, August 20th. No late assignments. You will have a "quick quiz" (approx 10 minutes) on this homework.

If you need extra help, please contact me **before** Thursday, August 20th.

1. Read Chapter 1.

Pay particular attention to: Key Words (p.31), Table 1.1, Table 1.2, Table 1.3 (k, d, c, m), volume units (p.17), Kelvin-Celsius conversions, scientific notation, significant figures.

Do the following questions & problems on pages 31 - 33: 1.4, 1.12, 1.13, 1.14, 1.15, 1.16, 1.19, 1.21, 1.22, 1.26, 1.30, 1.32, 1.36.

2. Dimensional Analysis ("correct procedure", "factor-label" method) is a technique that is used throughout the course and is an important part of the AP Chem exam. You **must use** dimensional analysis on **all** problems (including the simple ones). If a problem requires the use of a formula (for example, density), you **must write the formula** and use proper procedure. Do the following problems on pages 33-35: 1.37, 1.38, 1.40, 1.42, 1.44, 1.50, 1.54, 1.58, 1.62, 1.80.

3. Read a section of Chapter 2: pages 41 - 56. Review the Key Words for pages 41-56.

4. Do the following questions & problems on page 71: 2.14, 2.16, 2.18, 2.18, 2.20, 2.21, 2.22, 2.23, 2.24, 2.26, 2.27, 2.28.

5. Quick Quiz (Q²) on Thursday, August 20th at 8:20.