

HONORS CHEMISTRY SUMMER ASSIGNMENT FOR SOPHOMORES

2009-2010

GOAL

The goal of these exercises is to help you to preview the content of the Honors Chemistry course so that you can better focus your efforts during the school year on the more challenging concepts, such as stoichiometry. Completing this assignment will help you to excel at the basics of chemistry and identify potentially difficult material that you will encounter during the school year. Honors Chemistry is a fast-paced course that requires you to quickly master the concepts.

Please review the **syllabus** so you can see all that you will learn and accomplish in Honors Chemistry. Become familiar with the **course guidelines and the lab report requirements** before class begins.

REQUIRED SUMMER MATERIALS

Student Study Guide book for Honors Chemistry
Brown, LeMay, and Bursten text

A NOTE ABOUT YOUR TEXTBOOK

The Brown, *et. al.* text is the property of the school district. It must be brought to class on the first day of school (and every day for class) and returned at the end of the course (*i.e.* it is an obligation). The Study Guide book is your property.

ASSIGNMENT

Complete the problems listed below for chapters 1-3 of your text book. **Show all work** for the problems and answer any questions with complete sentences (No credit will be given for math problems if the work is not shown). The work may be **NEATLY** hand written in ink on lined or unlined paper. Each chapter should have its own page or packet of work (*i.e.* staple all work for chapter 1 together, then staple all work for chapter 2 together in a separate packet, etc.).

Your work will be collected on the first day of class and graded. This will be a first quarter quiz grade.

QUESTIONS:

<u>CHAPTER 1</u>	<u>CHAPTER 2</u>	<u>CHAPTER 3 (sections 3.1-3.4)</u>
P. 29-31: # 2, 10, 12, 16, 20, 22, 24, 36, 38, 40, 44, 46, 48	P. 66-70: # 6, 10, 16, 22, 42, 50, 54, 56, 58, 60, 66	P. 104-108: # 6, 8, 10, 12, 14, 16, 18, 26, 28, 30, 32, 34

NOTES

→ All metric conversions, density problems, word problems and mole conversions must be set up using dimensional analysis as shown in the text, sections 1.6 and 3.4. No credit will be given for “moving the decimal” or other types of problem solving.

→ Additional conversion factors and useful relationships can be found on the inside back cover of your text book.

→ Spend some time becoming familiar with the names and symbols of all of the elements (there is no need to memorize the locations of the elements on the periodic table).

The Honors Chemistry website, including an electronic version of this sheet and chapter notes can be accessed at <http://www.ahsd.org/science/siwak/siwak.htm>

OVER →

SUGGESTIONS

Read the textbook, review the sample problems in the chapters and answer the assigned questions related to each section of a chapter (there are section titles in the problem sets to guide you). If you have difficulty, refer to the student study guide that you received for additional clarification of the content and try to answer the question again. Don't skip problems...partial credit will be given!

The answers to the odd questions (which may be similar to the assigned even questions) can be found at the end of the book. Remember, there are several sample problems shown in the text and in the study guides for you to follow as you complete this assignment. Email any questions you may have to siwack@ahsd.org.