

# 2007 Honors Chemistry Summer Assignment

This assignment is important. It is mostly basic concepts and skills and will give us a terrific head start. You will appreciate not having to rush as we start working on brand new, challenging material in September.

## Chapter 1: Chemistry: An Introduction

- A. Read pages 1-11 in the textbook. TAKE NOTES!
- B. Memorize figure 1.1 (the scientific method).
- C. Complete the following end-of-chapter questions and problems:

*#1-15 (odd)*

## Chapter 2: Measurements and Calculations

- A. Read pages 15-21, and 33-44. TAKE NOTES!
- B. Memorize the metric prefixes (table 2.2)
- C. Complete the following end-of-chapter questions and problems:

*#7-31, 71-99 (odd)*

## Chapter 3: Matter and Energy

- A. Read pages 55-66. TAKE NOTES!
- B. Complete the following end-of-chapter questions and problems:

*#7-35 (odd)*

NOTE: It may be helpful to check out some of the even-numbered problems, as the answers are in the back of the book.

- You will hand these problems in on the first day of school in September.
- 50 problems worth one point each. We will present some of these answers in September.
- Due to the increased importance of problem solving techniques in chemistry as compared to biology, I ask that you follow the format on the back.
- Your notes/ outline will also count as a grade.
- We will learn the remaining topics and be tested on chapters 1-3 within 2 weeks of your return.
- I will answer *unavoidable* questions at [adamgenesmith@hotmail.com](mailto:adamgenesmith@hotmail.com) as best I can, if you have any.

## Required Format for Textbook Problems in Honors Chemistry

1. Write legibly. Pencil and eraser is preferred. I'm a pen person myself. If you are too, then stick to blue or black, and avoid white-out. It's just a good habit as a scientist, and you never know when your first answer may have been on the right track.
2. Write a heading on the first sheet of each chapter as follows:  

Name:	Date:
Chapter number:	Chemistry
3. Number each page as *page number/total pages* in the bottom right hand corner of each page. For example, 1/10, 2/10, ...
4. Skip at least 2 lines between each numbered question. Do not squeeze multiple question across a line. This is so we can fill in corrections and comments later.
5. Begin a new page for each chapter. List the questions required for the chapter on that page.
6. Number each question chapter # - chapter question.  
For example, 4-7, 4-12a
7. Write the question concept clearly, showing information given in the problem. It is not necessary to rewrite the entire question.  
For example, calc. density of 16.45 g NaCl in 1.500 L.
8. Show all of your work with sufficient detail and clarity. This means writing formulas, showing substitution, and showing units, where applicable.
9. Make sure your final answer is clear, and box the answer on longer problems.
10. Try your best to have the questions answered in order.
11. Oh, and there is a difference between "working together" and copying.
12. Your hard work *will* pay off.