

# HELP Chemistry

Dr. Frank, Instructor

## Week 6. 10/14/2008

Hopefully, you found your 'week off to catch up' useful.

Today, we will continue reviewing Chapter 1 & 2 topics, and review problems you had with the homework. We will continue discussing the elements and isotopes, the periodic table of elements, and today especially *the mole!*

### Homework due 10/21/08

- 1) Review Chapters 1-2 in the text (and the homework problems, if necessary).
- 2) Read Chapter 3.
- 3) Study questions 9-35, odd (answers are in the back). If you get them wrong you can do them again for full credit! Show your work, check your answers, and write your score on top of paper (e.g. 19/23), turn in your homework at the end of next week's class.
- 4) Questions to ponder and for class discussion (make notes in your lab notebook):
  - a. What is the difference between a fundamental quantity and a derived one?
  - b. What is a dimension?
  - c. Why do we bother with significant figures?
  - d. Why do we do so many calculations in Chemistry?
  - e. How reliable is the scientific method?
  - f. What is density?
  - g. What is a mole?
  - h. Why does Carbon weight about 12 g/mole?
  - i. How can you estimate how old a star is?
  - j. How can you tell if a rock has extraterrestrial origin?
  - k. How do you know that atoms exist?
  - l. How big is an atom?

### Remember to bring to every class:

- a) Chemistry text
- b) Calculator
- c) Lab notebook
- d) Pen (required for lab notebook)
- e) Your homework!