

CHAPTER 1 STUFF TO KNOW & STUDY SUGGESTIONS

There's a whole lot of material in this chapter and it could become very overwhelming as you study for test. To help you organize it, and as an extra review for the test, the following suggestions are STRONGLY ENCOURAGED.

THINGS TO KNOW:

- All the notes I gave, everything in your book, the labs we did, and the Cu, P, and Si videos at www.periodicvideos.com are fair game for the test. For example, here are some of the topics you need to make sure you KNOW:
 1. Know, know, know the definitions to all the bold and italicized words in the chapter
 2. Make sure you can define all the branches of chemistry and recognize examples of each
 3. Distinguish between and give examples of the different types of scientific work
 4. Be able to label properties as quantitative, qualitative, intensive, or extensive
 5. Distinguish between physical and chemical changes and properties and give examples
 6. Describe solids, liquids, and gases, and describe/draw the arrangement of the molecules in each
 7. Identify reactants and products in chemical reactions
 8. Classify matter as to type, i.e., homogeneous, heterogeneous, pure substance, etc.
 9. Know three types of solutions and an example of each
 10. Describe how to separate different mixtures
 11. Know the characteristics of pure substances
 12. Know Latin names for selected elements
 13. Know the names and symbols for elements 1 - 58, 60, 61, 74, 76 – 95 (and select Latin names)
 14. Describe the properties, uses, and give examples of metals, non-metals, and metalloids
 15. Physical and chemical properties and uses of Cu, Si and P (from textbook and periodicvideos.com)
 16. Distinguish between the types of energy and give examples of each
 17. Know the properties of endothermic and exothermic reactions
 18. Distinguish between heat and temperature and make applications using the difference
 19. Read and interpret a phase diagram
 20. Define and be able to apply the law of definite composition and the law of conservation of energy

THINGS TO DO:

- **Give yourself plenty of time to study.** Do not try to complete all of these suggestions in one night. It is too much for you to keep straight. I would suggest a **minimum** of 3 hours of study time (not all at once).
- A few days before the test on this chapter, read the "SECTION OBJECTIVES" at the beginning of each section review any topics that you think will cause you a problem. For topics you are not sure about, go back and watch the vodcast of the lesson on the website.
- Read the Chapter Summary out loud. Write down the definitions of all the VOCABULARY. Practice memorizing them with the Interactive Review Games in the Student Premium section of the online textbook. Or, write down the definitions on flashcards and (term on front, definition on back) and have someone call them out to you until when they begin the definition, you can finish it and give them the term.
- Practice with the Interactive Review Games in the Student Premium section of the online textbook.
- RE-DO TPC activities – don't sign in this time, just do them as a guest
- Review the answers to the questions from your homework. If there are any you still cannot answer, get help!
- Test yourself by **writing** the answers to the Section Review Sheets that are in each section of the Student Resources section online textbook. After you are finished, check your answers in your book and notes and correct the ones you missed. This will give you an indication of how much of the chapter you really do know. (Remember, the questions and problems from the study guide are usually easier than those on the real test!)