

## CHAPTER 1 STUDY SUGGESTIONS

***THERE IS A WHOLE LOT OF MATERIAL IN THIS CHAPTER AND IT COULD BECOME VERY OVERWHELMING WHEN YOU STUDY FOR YOUR TEST. TO HELP YOU ORGANIZE IT IN YOUR MIND, AND AS AN EXTRA REVIEW FOR THE TEST, THE FOLLOWING SUGGESTIONS ARE STRONGLY ENCOURAGED.***

- 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).
- 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.
- 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.
- Practice with the Interactive Review Games in the Student Premium section of the online textbook.
- Practice the online quizzes at <http://www.sciencegeek.net/Chemistry/taters/directory.shtml>
- Review the answers to the questions from your homework. If there are any you still cannot answer, get help from someone.
- Having studied this chapter, put away your notes and test yourself by **writing** the answers to the “SECTION REVIEW” at the end of each section in your text - **NO PEEKING FOR ANSWERS IN THE CHAPTER!** Writing the answers will force you to challenge yourself. ***If you can write you can write the answers for yourself, you can probably write the answers for your teacher!***
- For an additional pre-test, close your book, put away your notes, and test yourself by answering the Section Review Sheets that are in the 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!)
- Everything in your book, the labs we did, the Cu, P, and Si videos at [www.periodicvideos.com](http://www.periodicvideos.com), and all the notes I gave 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
  14. Describe the properties, uses, and give examples of metals, non-metals, and metalloids
  15. Element Handbook Search 1 and 2
  16. Distinguish between the types of energy and give examples of each
  17. Define endothermic and exothermic reactions
  18. Define the law of definite composition and the law of conservation of energy