

Chapter 10 Study Guide

Prior to lecture:

1. Read Ch. 10 in textbook
2. Define the following terms:
 - a. Electron
 - b. Electron volt
 - c. Proton
 - d. Neutron
 - e. Nucleus
 - f. Atomic number and Mass number
 - g. Isotopes
 - h. Bohr Atom
 - i. Radioactivity (alpha, beta and gamma)
 - j. Half-life
 - k. Radiometric dating
 - l. Fission
 - m. Fusion
3. Answer conceptual questions 1, 2, 4, 7, 12, 14, 21 and 31 on pages 423, 424 and 425 of the text.
4. Work through example problem 10.1, 10.2 and 10.3.

After the lecture

1. Review notes from lecture.
2. Redo all example problems from lecture.
3. Work through example problem 10.5, 10.6, 10.8 and 10.9 of the text.
4. Complete the worksheet problems.
5. Answer conceptual questions 3, 8, 9, 10, 16, 18, 23, 33 and 35 of the text.
6. For extra practice, try the following problems from chapter 10 of the textbook: 6, 9, 15, 17, 19, 21, 22, 28, 29, 31, 44, 45, 46, 70, and 92.