Chapter 7 Study Guide

Prior to lecture:

- 1. Read Ch. 7 in the textbook
- 2. On a sheet of paper, work through examples 7.1 and 7.3.
- 3. On a sheet of paper, complete the "Take-Home Experiment" on page 236. Answer all questions.
- 4. Read the "Problem-Solving Strategies for Energy" on pages 244-245. Rewrite the procedure in your own words.
- 5. Answer conceptual questions 1, 2, 4, and 10 on page 258 of the text.
- 6. Define the following terms:
 - a. Energy
 - b. Kinetic energy
 - c. Potential Energy
 - d. Work
 - e. Work-Energy Theorem
 - f. Mechanical Energy
 - g. Nuclear energy
 - h. Thermal energy
 - i. Radiant energy
 - i. Electrical energy
 - k. Chemical energy
 - 1. Conservation of energy
 - m. Power
 - n. Horsepower
 - o. Nonconservative force
 - p. Conservative force

After lecture:

- 1. Review notes from lecture
- 2. Redo all example problems from lecture
- 3. Reread text
- 4. Work through examples 7.1, 7.2, 7.3, 7.7, 7.8, 7.10, and 7.11 of the text.
- 5. Redo all recitation worksheet problems
- 6. Answer conceptual questions 3, 6, 9, 12, 14, 20, 23, and 24 on pages 258-259 of the text.
- 7. Complete homework for chapter 7
- 8. For extra practice, try the following problems from chapter 7 of the textbook: 3, 5, 6, 10, 14, 17, 21, 24, 28, 30, 36, 37, 43, 45, 52, 58,