Chapter 25 Study Guide

Prior to lecture:

1. Read Ch. 25 in textbook
2. Work through example problem 25.1, 25.3, 25.4 and 25.5.
3. On a sheet of paper, complete the "Take-Home Experiments" on pages 894, 898, and 925.
4. Answer conceptual questions 3, 5, 6, 17, 19 and 22 on page 926 of the text.
5. Define the following terms:
    a. Geometric Optics
    b. Law of Reflection
    c. Refraction index of a medium
    d. Law of Refraction
    e. Critical angle
    f. Total internal reflection
    g. Dispersion of light
    h. Focal length
    i. Power of a Thin Lens
    j. Convex Lens
    k. Concave Lens
    l. Magnification
    m. Spherical Mirrors
    n. Focal length of curvature of Spherical Mirrors
    o. Radius of curvature of Spherical Mirrors.

After the lecture

1. Review notes from lecture.
2. Redo all example problems from lecture.
3. Reread text
4. Work through example problem 25.6, 25.7, 25.9 and 25.11
5. Redo all recitation worksheet problems
6. Answer conceptual questions 10, 16, 20, 23, 24 and 29 of the text.
7. Complete homework for chapter 25.
8. For extra practice, try the following problems from chapter 25 of the textbook: 1, 6, 7, 9, 10, 12, 15, 17, 21, 25, 28, 29, 32, 35, 37, 40, 46, 50, 55, 57 and 59.