

## Chapter 18 Study Guide

Prior to lecture:

1. Read Ch. 18 in textbook
2. On a sheet of paper, work through example 18.1.
3. Answer conceptual questions 2, 5, 9 and 10 at the end of the chapter.
4. Define the following terms:
  - a. Static Electricity
  - b. Conservation of charge
  - c. Conductors and Insulators
  - d. Coulomb's forces and Coulomb's law
  - e. Electric field lines
  - f. Static Equilibrium
  - g. Test charge
  - h. Dipole
  - i. Polarization

After the lecture:

1. Review notes from lecture
2. Redo all example problems from lecture
3. Reread text
4. Work through example problem 18.3 and 18.4.
5. Redo all recitation worksheet problems
6. Answer conceptual questions 3, 7, 11, 15, 25, 26, 27 and 31 of the text.
7. Complete homework for chapter 18.
8. For extra practice, try the following problems from chapter 18 of the textbook: 1, 2, 4, 5, 6, 9, 10, 12, 14, 16, 21, 24, 25, 28, 30, 31, 33, 36, 39, 45, 47, 51, 57, 60.