Week 1
Lecture objectives and Homework

Reading: Chapter 1 and Chapter 2

Lecture topics:
- Scientific method and scientific discovery
- Measurements and significant figures
- Problem solving (dimensional analysis)
- Classification and properties of matter
- Atoms, molecules, ions, compounds, and mixtures
- Chemical formulas and naming

Homework: due Friday, 9/8/2005
Show your work; partial credit is possible

Part I. Chapter 1 problems: 7(a-d), 11, 14, 18, 19(a,b), 22, 23.

Part II. Write a paragraph or two describing an experiment that would answer a question about the phenomenon described in class on the first day. Can you discover one or two ingredient(s) that might be contributing to the effect? First make a hypothesis (I think that X contributes), then propose an experiment that could provide support for your hypothesis. Don’t forget control experiments!