Exam 1 Study Guide

- Chapters 1-2 (2.1-2.7)
- Quiz 1
- Lectures 1-8
- Homework 1-3
- Periodic Table Horizontal Rows 1-4

- Chapter 1
  - Table 1.1: mass, length, time, temperature, amount of matter
  - Table 1.2: $10^{-6}$ through $10^6$
  - Significant Figures
  - Dimensional Analysis (I will provide all unit conversions except those in Table 1.2)
  - Temperature Conversions
  - Density
  - Classification of Matter
  - Key Terms, p 30.

- Chapter 2 (2.1-2.7)
  - Atomic Structure
    - electrons
    - nucleus
    - neutron
    - proton
    - symbolic representation (A, Z, N)
    - isotopes
  - Law of Constant Proportions
  - Law of Multiple Proportions
  - Molecular Theory
    - covalent bond
    - molecular formula
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    - cations
    - anions
  - Key Terms, p 72.
  - Exercises, 29-60 p 74-76.