

CHAPTER 1 LEARNING OBJECTIVES

1. Convert between units using dimensional analysis and know the prefixes commonly used in the metric system (Tables 1.2 and 2.1).
2. Perform calculations involving density.
3. Know the four assumptions upon which the modern atomic theory is based.
4. The differences between physical and chemical properties.
5. The differences between physical and chemical changes.
6. The characteristics of the three states of matter.
7. The differences between: a) compounds and mixtures, b) heterogeneous and homogenous mixtures, c) elements and compounds, d) atoms and molecules.
8. Use the periodic table to identify an element as a metal, nonmetal, or metalloid.

Review the “In Closing” and “Key Terms” sections of Chapter 1 (pages 32-33).