

CHE 101 Chapter 1 - Study Guide

Terms: Chemistry, Hypothesis, Theory, Scientific Law, Scientific Method, Matter, Solid, Liquid, Gas, Phase, Amorphous, Homogeneous, Heterogeneous, Pure Substance, and Mixtures

1. General understanding of the scientific method
 - a. Quantitative Measurements (Ch 2)
 - b. Qualitative Observations - Categorizing
2. Define, Compare, Contrast and Differentiate between:
 - a. Solids, liquids, and gases based on shape, volume, particle interactions, and compressibility. (Table 1.1 and Fig. 1.5)
 - b. Pure substances (Elements and Compounds) and Mixtures
 1. Physical vs. Chemical Separation
 2. Fixed vs. Variable Composition
 3. Figure 1.7
 - c. Homogeneous and Heterogeneous
 1. One phase vs. two phases
 2. Same properties (chemical and physical) throughout vs. different properties in different parts.
3. The review from the book is very nice also.