**Study Guide**

**Physical Science**

**Chapter 1: Introduction to Science**

* **Objectives**
  + **1.1: The Nature of Science**
    - Identify and apply lab safety rules and procedures
    - Identify common lab equipment and its uses
    - Use common lab equipment to make measurements with the precision of the instrument reflected in the value reported.
    - Differentiate between and identify theories, beliefs, laws, hypothesis, and facts.
  + **1.2: The Way Science Works**
    - Summarize, use, and apply the scientific method in experimentation.
    - Differentiate between independent and dependent variables
    - Identify experimental controls
    - Differentiate between control and experimental groups
    - Differentiate between and make qualitative and quantitative data and observations.
    - Make metric measurements based on the precision of the measurement tool.
* **Vocabulary**
  + **1.1: The Nature of Science**
    - Belief
    - Fact
    - Hypothesis
    - Law
    - Theory
    - Graduated cylinder
    - Beaker
    - Erlenmeyer flask
  + **1.2: The Way Science Works**
    - Mass
    - Scientific method
    - Variables
      * Independent variable
      * Dependent variable
    - Experimental controls
    - Control group
    - Experimental group
    - Qualitative data
    - Quantitative data
    - Precision
    - Accuracy