**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