**Physical Science**

**Topic 1 Test Study Guide – Intro, Scientific Method, Lab Safety & Equipment**

**Know**

Beaker

Erlenmeyer flask

Goggles

Graduated Cylinder

Pipet

Microscope Slide

Thermometer

Test Tube

Forceps

Ruler

Hypothesis

Procedure

Constant Factors

Independent Variables

Dependent Variables

Observation

Inference

Quantitative Data

Qualitative Data

Control Group

Experimental Group

**Understand**

The functions of each major piece of laboratory equipment listed above.

The overall purpose of the scientific method.

Why scientists put raw data into charts, graphs, etc.

**Be Able To…**

Identify which piece of lab equipment would be used in a variety of scenarios.

List the steps of the scientific method, in order.

Identify, analyze, and write a good quality hypothesis.

Identify, analyze, and write a good quality conclusion, when given a set of information.

Identify the various factors within a scientific investigation (constants, independent variables, dependent variables, etc).

Analyze scientific investigations to identify the shortcomings and improve upon the investigation.

Create and read a graph which illustrates trends found in data (should include axis labels, title, and key).