CHARACTERISTIC PROPERTIES LAB

Name: _____ Date: _____ Period: _____

Purpose: To identify properties that can help us identify different types of unknown matter.

Research: *Class discussion and Blue Holt Textbook, pages _____*

A **PROPERTY** of an object is _____

1. List 3+ good descriptive words to describe properties observed by each of our senses.

SIGHT: _____
TOUCH: _____
SOUND: _____
SMELL: _____
TASTE: _____

2. List the tools and units of measure we used in each of the following labs.
Length Lab: _____
Solid Volume Lab: _____
Liquid Volume Lab: _____
Mass Lab: _____
Density Labs: _____

What is a **PHYSICAL PROPERTY** ?_____
_____
_____

List six physical properties and provide a description of each one.
1._____   4. _____
2. _____   5. _____
3. _____   6. _____

What is a **CHEMICAL PROPERTY** ? _____
_____
_____
List 3 **chemical properties**: _____
_____

What is a **CHARACTERISTIC PROPERTY?** _____
_____

Hypothesis: If I can obtain enough information about eleven unknown materials, <u>then</u> I will be able to accurately identify _____ out of 11 materials <u>because</u> **characteristic properties** are _____
_____
_____

Experiment: Use the provided equipment to test the following properties of each unknown material. Be sure to record the correct units for each measurement taken. Once completed, use the chart provided by the teacher to identify each sample.

Properties of Matter							
Appearance/ Description	Conducts Electricity (yes/no)	Metal or Nonmetal?	Magnetic property (yes/no)	MASS property	VOLUME property	DENSITY property g/cm³	Identity (See chart)

Analysis:

1. **Draw** a diagram of a complete circuit below (when the light bulb lit up). **Label** each components.

2. What are some characteristic properties of water? _____
_____
_____

3. Pick an item from a previous lab and list as many physical properties as you can to describe the item without writing its identity. When finished, share them with your lab partner and see if they can identify the item._____
_____
_____
_____