Science 9
Chemistry

Name: _____
Date: _____

Lab C.1. METAL, NONMETAL, OR METALLOID?

LESSON OBJECTIVES

The objective of this activity is to

1. observe the physical properties of a set of elements and classify the elements as a metal, metalloid, or nonmetal, and
2. Place these elements in their respective places in the periodic table.

LEARNING OUTCOMES

1. By observing some basic physical properties, you will be able to identify if a substance is a metal, metalloids, or a nonmetal.
2. You will be able to state where in the periodic table you will find metals, metalloids, and nonmetals

HYPOTHESIS

BACKGROUND

Elements have **unique** physical and chemical properties, which make them useful for specific purposes in our everyday world. All known elements can be classified as **metals**, **nonmetals**, or **metalloids** according to the substance's **specific physical** properties. Physical properties are properties that can be observed without changing the identity of a substance

1. **Metals** are located from the centre to the left side of the zigzag line on the periodic table. They are usually **silver-gray** in colour, with the exception of copper and gold. All metals are **solid at room temperature** except mercury, which is a liquid. Metals have a **lustrous** or **shiny appearance** and reflect light when polished. They can be bent or hammered flat (**malleable**), can be drawn into wire (**ductile**), are good **conductors of heat and electricity,** usually show reaction