ACTIVITY 1

Complete the following table by supplying either the name or symbol for the elements listed, and whether it is a metal, non-metal, or semi-metal.

Name	Symbol	Metal or non-metal?
Hydrogen	H	Non-metal
Lithium	Li	Metal
Sodium	Na	Metal
Carbon	C	Metal
Silicon	Si	Non-metal
Magnesium	Mg	Metal
Oxygen	O	Non-metal
Chlorine	Cl	Non-metal
Potassium	K	Metal
Boron	C	Metaloid / Semi metal
Copper	Cu	Metal

ACTIVITY 2
Make your own model of an atom

Do you remember Dalton's 3 postulates from the beginning of the chapter? They are:

1. **Each element consists of indivisible, minute particles called atoms.**
2. **All atoms of a given element are identical.**
3. **Atoms of different elements have different masses.**

So, each element on the Periodic Table has its own type of atom. The atoms of different elements are different as they have different numbers of protons. Do you remember that we said the **atomic number** of an element is the number of protons in an atom of that element?

So, if we wanted to make a model of a nitrogen atom, how many protons would we need? Seven (7)

If we wanted to make a model of a sulfur atom, how many protons would we need?
sixteen (16)

In most atoms of an element, the number of neutrons in the nucleus is the same as the number of protons. The number of electrons can change, but for now we are going to make models of neutral atoms. So, there must be the same number of electrons as protons.

MATERIALS :

- glue
- paper plate
- playdough, beads, dried lentils or peas, etc

INSTRUCTIONS:

After reading the information about atoms, choose an element from the first 20 elements. Build a model of the element you have chosen. What is the name of your element?

Depends on element pupil chose

What is the atomic number of your element?
Depends on element pupil chose

How many protons will you need to make for your atom?
Depends on element pupil chose

Now decide what objects you will use to create the subatomic particles in your model.
Stick these onto the paper plate and provide labels.
After you have built your model, draw a model of your atom below. Provide labels.
These are both models of your atom!

Once you have made this model I hope you show your teacher.