



## Periodic Table Summary

**By the end of this unit you should be able to;**

- State that an element contains one type of atom only.
- State that a compound is a substance made up of two or more elements.
- State that an element cannot be broken down into anything simpler.
- State that a molecule is a group of atoms joined together.
- State that there are 118 elements
- Be able to use the periodic table to give the atomic symbol for an element.
- State that elements exist as solids, liquids and gases.
- State that elements can be grouped as either metals or non-metals.
- State that there are about 95 metals and 23 non-metals.
- Explain that most solid elements are metals and be able to name the liquid and gaseous elements.
- State that metals are shiny when polished and conduct heat.
- State that non-metals exist as solid liquid and gas at room temperature.
- State that non-metals generally have low melting and boiling points and are poor conductors of heat.
- State that metals conduct electricity.
- State that non-metals are poor conductors (insulators) of electricity.
- State that the groups are the vertical columns of which there are eight.
- State that group 1 is called the alkali metals.
- State that group 8 is called the noble gases.
- State that the horizontal rows are called periods
- State that the transition metals lie between groups two and three.
- Explain that each member of a group has similar chemical properties e.g. group 8 elements are all unreactive, group 1 elements react with water / oxygen.

**You should also be able to;**

- Present information in the form of a table drawn with a ruler, including headings and using units where appropriate.
- Present information in the form of a bar graph drawn with a ruler, including suitable scale and labelled axes, including units where appropriate.