

## Unit 3 More about matter- Periodic Table

**Instruction: answer all questions**

1. Define the term matter.

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2. The Periodic Table above show the first twenty (20) elements.  
The Periodic Table is divided into horizontal rows called period and vertical columns called groups.
  - a) Write in the group number in its correct place on the Periodic Table.
  - b) Write in the period number in its correct place on the Periodic Table
  - c) Place the symbols of the elements below in there correct position.

Example: Sulphur, P3, G6 (**the symbol should be place in period 3 group 6**)

Magnesium	Chlorine	Silicon	Lithium
Neon	Helium	Potassium	

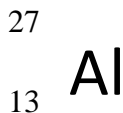
3. What is an element?
4. Elements can be group as metal non-metal and metalloid or semi-metals. Using the table below place the first twenty elements of the Periodic Table under their correct heading.

<u>Metals</u>	<u>Non- metals</u>	<u>Metalloids/ semi- metals</u>

5. Which elements are represented by the following symbols? Some of the elements below are not within the first twenty.

- Be                      Zn
- Cu                      Au
- K                        Ar
- Fe                      Hg

6. The diagram below shows the representation of an element in the periodic Table.



- a) Name the atom that is represented by the symbol above \_\_\_\_\_
  - b) How many electrons does the atom/element has? \_\_\_\_\_
  - c) Is the atom/ element a metal or a non-metal \_\_\_\_\_
7. State the difference between diffusion and osmosis.
8. Why are element like arsenic describe as semi-metals/ metalloids?
9. Hydrogen is often placed at the top of Group 1 of the periodic Table. Why is misleading?
10. Are the elements in group 1 metals or non – metals? \_\_\_\_\_

**Hint:** become familiar with the Periodic Table. While you focus on the first twenty (20) be will to learn about the others as this will prove to be beneficial.