

SUBSTANCES

By the end of this topic you should be able to

1. **State** that everything is made up of building blocks called **ELEMENTS**. There are around **100** elements
2. **State** that **ELEMENTS** have symbols
3. Each element contains one type of **ATOM**
4. Use a Periodic Table to **identify** the symbols for elements
5. The first letter of the symbol is upper case. The other symbols are lower case
6. Each element has a unique number called the **ATOMIC NUMBER**
7. Classify the elements in the following ways
 - metals and non-metals
 - solid, liquid , gas
 - natural and synthetic
8. Use a periodic table to classify elements
 - metals on the left of the zig zag & non-metals on the right zig zag
 - identify the solids, liquids and gases
 - identify synthetic and natural elements
9. State two properties of metals
10. State that columns in the Periodic Table are called **GROUPS**

11. State that the name given to the following groups of the Periodic Table
Group 1 = ALKALI METALS
Group 7 = HALOGENS
Group 0 = NOBLE GASES
12. State that the metals between Group 2 and Group 3 are called **TRANSITION METALS**
13. Give an example of a **MIXTURE** and define the word **MIXTURE**
14. Separate a **MIXTURE**
15. Make a compound called copper (II) sulfide
16. Compare the properties of the compound to a mixture with the same elements present
17. State difference between a mixture and a compound
18. State the "**ide**" rule
19. Name compounds that contain 2 elements
20. State what mono, di, tri and tetra prefixes mean
21. Write formula from compound names which use these prefixes and vice versa
22. State the "**ate/ite**" rule
23. Name the elements present when given a compound name that ends in "**ate/ite**"
24. State the exception to the "**ide**" rule
25. Write word equations for chemical reactions from a description