

TENDER HEART HIGH SCHOOL, SEC-33B, CHD

29.7.24

CLASS - VII

SUBJECT - CHEMISTRY

CHAPTER - 3

TEACHER - ANAMIKA

Good morning to all the students!

Students this lesson is for class - VII for the subject of chemistry, Topic - 'Compounds' which is covered in chapter - 3 'Elements, Compounds and Mixtures' starting on page no - 31 of your text-book titled - 'Concise chemistry' by 'Selina Publication' and is being submitted to you on 29.7.24.

All students may now please open page no - 31 of your notebook in front of you.

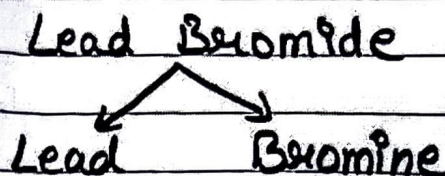
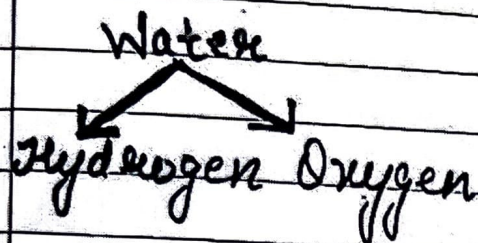
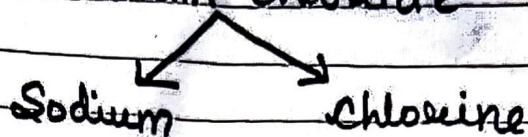
If all students are ready then let us start with this chapter. All students may now please listen carefully.

COMPOUNDS

A compound is made up of two or more elements present in a fixed ratio by mass. Like in water (H_2O) the ratio of hydrogen and oxygen is 2:1. A compound is considered as a pure substance as it is homogeneous. Compounds can be broken into simpler substances by chemical means like electrolysis (Passing electric current).

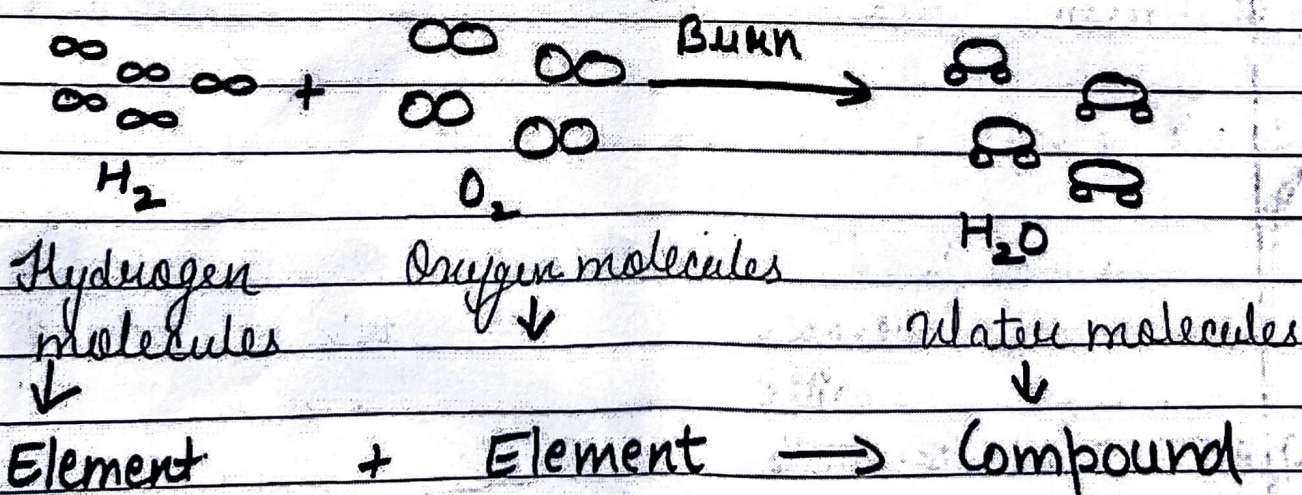
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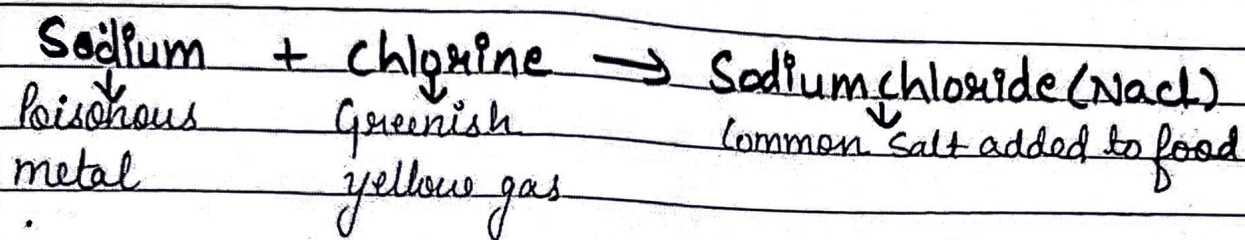
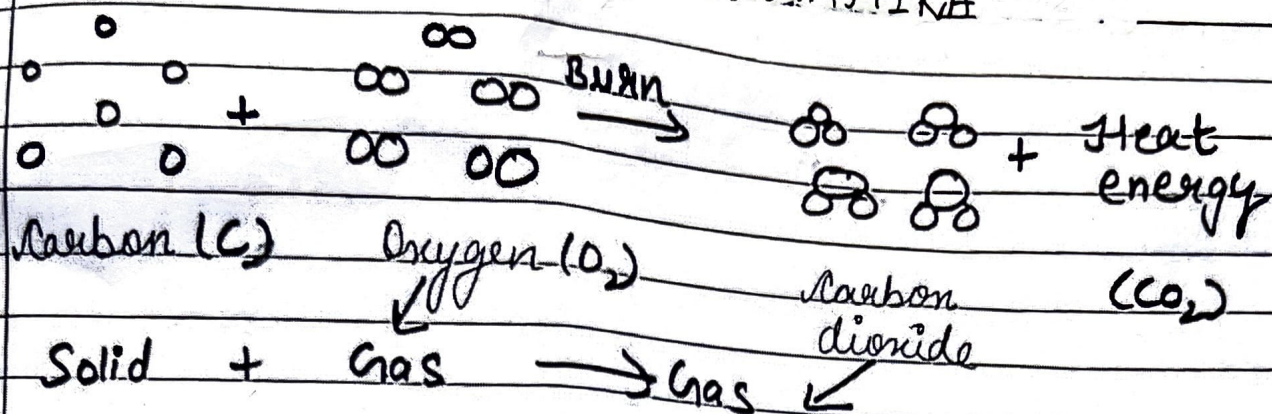
Common Salt or Sodium chloride



Water is made of hydrogen gas and oxygen gas but it is a liquid at room temperature. Oxygen helps in burning but water does not. Thus the properties of water are totally different from its components hydrogen and oxygen.

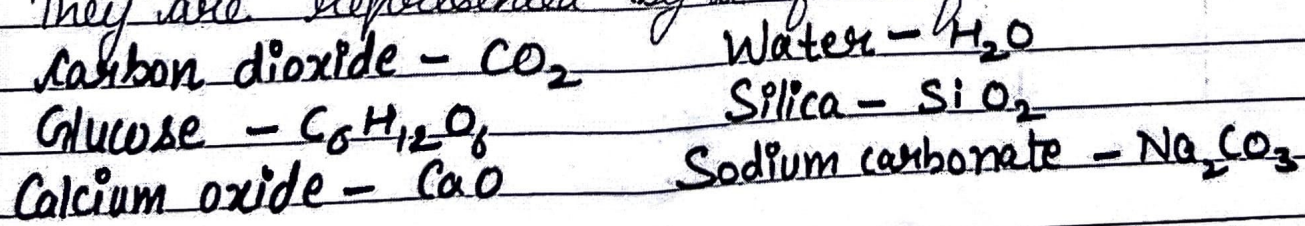
Compounds are made of molecules.





From the above examples we have understood that

- 1) The properties of compounds are different from the constituent elements.
- 2) They can be broken into their constituent elements by only chemical means.
- 3) The elements in a compound are present in a fixed ratio.
- 4) Energy is either absorbed or released during the formation of compound.
- 5) They are represented by a fixed formula.



Characteristics of compound are given on page no-31 of your chemistry notebook.

Now, I will give you three a very short questions
You will get a three minutes break to write
the answers.

The Questions are:-

Q1:- In NH_4 what is the ratio of Nitrogen and Hydrogen

Q2:- Name the elements present in Sodium hydroxide

Q3:- What is the formula of Glucose?

Now, pause this audio for three minutes and write
the answers in your chemistry notebook.

I hope you all have written the answers by now.
Let us check the answers now.

Ans1:- $\text{N} = 1$, $\text{H} = 4$ 1:4

Ans2:- Sodium, Hydrogen and Oxygen

Ans3:- $\text{C}_6\text{H}_{12}\text{O}_6$

Now, I am ending the lesson for today by giving
'Instructions' and 'Homework'

INSTRUCTIONS & HOMEWORK:-

you all are required to read the lesson again
and revise all the topics which we have done today.
do Q1 to Q7 of Exercise-I given on page no-32
of your chemistry notebook.

(Thank You)