

TENDER HEART HIGH SCHOOL, SEC-33B, CHD

CLASS- X

CHAPTER- 7

SUBJECT- CHEMISTRY

TEACHER- ANAMIKA

Good morning to all the students!

Students this lesson is for class-X for the subject of chemistry, Topic :- 'Metals' which is covered in chapter-7 'Metallurgy' starting on page no-120 of your text-book titled 'Science' chemistry by Bellna Publication and being submitted to you on 8th July, 2024

All students may now please open page no-120 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.

Most of the elements present in nature are metals. Out of 118 elements known to us only 17 are non-metals.

METALS -

Elements which form positive charged ions by the loss of electrons are called metals.

(Porto)

CLASS- X

SUBJECT- CHEMISTRY

CHAPTER- 7

TEACHER- ANAMIKA

classmate

Date

Page 2

Occurrence of Metals:-

Metals are found in the Earth's crust either in their free state or in a combined state.

Most of the metals are reactive so they are found in the combined state in the form of their oxides, carbonates, halides, sulphides, sulphates etc. Like sodium and potassium occur mainly as their chlorides.

Minerals and Ores

Naturally occurring compounds of metals are called as minerals. The compounds are generally mixed with earthly impurities like soil, sand, silica, limestone etc. These impurities are called gangue or matrix.

Ores:- Naturally occurring minerals from which metals are extracted commercially at low cost with minimum effort. Example:- Iron is extracted from haematite, zinc from zinc blende.

Common Ores of Aluminium:-

1. Bauxite - $\text{Al}_2\text{O}_3 \cdot 2\text{H}_2\text{O}$
2. Cryolite - Na_3AlF_6
3. Corundum - Al_2O_3

(P.T.O.)