

WORKSHEET

CLASS- VIII

SUBJECT- Science

CHAPTER- 3, Metals and Non- metals

A. Fill in the blanks.

1. _____ is the most abundant metal in the earth's crust followed by ____.
2. Process of purification of metals is called _____.
3. Metals are used to make bells because of their property of _____.
4. _____ is the most ductile metal.
5. $2\text{Mg} + \text{_____} \longrightarrow 2\text{MgO}$

B. Write true and false.

1. Silicon, germanium are examples of metalloids. _____.
2. Copper and silver react with water to liberate H_2 gas. _____.
3. Curd and pickles can easily be stored in metal containers. _____.
4. Pure gold is of 24 carats. _____.
5. Brass is made up of copper and tin. _____.

C. Match the following.

- | | |
|----------------|---------------------|
| 1. Gun metal | Gun powder |
| 2. Graphite. | Phosphorus |
| 3. Sulphur. | Tin + copper + zinc |
| 4. Match- box. | Cooking utensils |
| 5. Aluminium | Batteries |

D. Answer the following briefly.

1. Complete the reactivity series.
K — — — Ca — — — Al — — — Fe.
2. Give the uses of phosphorus and sulphur.
3. $\text{Fe} + \text{_____} \longrightarrow \text{FeCl}_2 + \text{_____}$.
4. Which metals are the best conductor and the poorest conductor of heat respectively?
5. Write five physical properties of both metals & non- metals.

E. Answer the following.

1. What is meant by metallurgy and an ore?
2. Compare
 - a. Physical properties (4) of metals & nonmetals
 - b. Thermal & electrical conductivity
3. Explain the reaction of one metal with oxygen and water by writing the chemical equations.
4. Give the chemical reaction to show the reaction of a metal with a dil. acid.

5. What do you mean by noble metals? Explain using examples.

F. Pick the correct option.

1. _____ are metalloids.
 - a. Silicon
 - b. Arsenic
 - c. Germanium
 - d. All of above
2. $\text{CO}_2 + \text{H}_2\text{O} \longrightarrow$ _____
 - a. Carbonic acid
 - b. Carboxylate
 - c. Carbonate
 - d. No reaction
3. Which of these are stored under kerosene ?
 - a. Sodium
 - b. Potassium
 - c. Magnesium
 - d. Both a & b
4. _____ is the least reactive metal.
 - a. Gold
 - b. Silver
 - c. Platinum
 - d. Mercury
5. Which of these are noble metals ?
 - a. Gold
 - b. Silver
 - c. Platinum
 - d. Both a & c
6. Aluminium being light is used to make
 - a. Aircraft bodies
 - b. Cooking utensils
 - c. Foils
 - d. All of above
7. Copper + Zinc makes _____ alloy.
 - a. Brass
 - b. Bronze
 - c. German silver
 - d. None
8. Which of these non- metals are used in fertilisers?
 - a. Nitrogen
 - b. Phosphorus
 - c. Iodine
 - d. Both a & b
9. These metals are very soft
 - a. Silver
 - b. Sodium

- c. Potassium
 - d. b & c
10. Pure gold means
- a. 22 carats
 - b. 24 carats
 - c. 20 carats
 - d. All of these