



BAL BHARATI PUBLIC SCHOOL, PITAMPURA, DELHI-110034

CLASS-8

Metals & Non-metals

Chemistry Assignment

- Q1. How are elements classified ?
- Q2. What are metalloids ? Give 2 examples.
- Q3 a. Define the terms: Malleability and Ductility
b. Name the two most malleable metals.
- Q4. State the difference between metals and non metals on the basis of the following criteria –
a. Lustre
b. Thermal & electrical conductivity
c. Physical state
d. Ductility
- Q5. Answer in one word:
a. A liquid metal
b. A liquid non metal
c. A soft metal
d. A lustrous non metal
e. A hardest naturally occurring non metal
f. A non-metal which conducts electrically
g. A metal having low melting point
- Q6. State the differences between:-
Metals and non –metals in their reaction with Oxygen. Give 2 examples of the kind of oxides formed by them.
- Q7. Explain the phenomena of rusting with the help of a word equation ?
- Q8. Give reasons:-
a. When Iron is mixed with Copper Sulphate Solution, the colour of the solution changes.
b. Metals like Sodium & Potassium are stored in Kerosene oil while non-metals like Phosphorous is stored in water.
c. Copper is used for making electrical wires.
d. Copper loses its Lustre and develops a green coating over it when exposed to atmosphere.
- Q9. An unknown element X reacts in air to form its oxide Y. This Y dissolves in water which turns blue litmus into red. Predict whether X is a metal or a non-metal ?

- Q10. a. Name the products formed when a piece of Sodium metal is added to water.
b. When the solution so formed, is tested with litmus, what kind of colour change is expected ? Reason out your answer.
- Q11. How do you test the presence of Hydrogen gas ?
- Q12. Complete the following reactions:-
- a. Magnesium + Oxygen \rightarrow
 - b. Magnesium Oxide + Water \rightarrow
 - c. Iron + Oxygen + Water \rightarrow
 - d. Sulphur dioxide + Water \rightarrow
 - e. Aluminium + Hydrochloric acid \rightarrow
 - f. Iron + Sulphuric Acid \rightarrow
 - g. Copper + Hydrochloric acid \rightarrow
 - h. Copper + Sulphuric acid (dil.) \rightarrow
 - i. Copper Sulphate + Zinc \rightarrow
 - j. Copper Sulphate + Iron \rightarrow
 - k. Copper + Zinc Sulphate \rightarrow
 - l. Copper + Iron Sulphate \rightarrow
 - m. Zinc Sulphate + Iron \rightarrow
- Q13. A Copper statue was found to lose its lustre after some time. A layer of dull green coating was deposited over it. Explain the cause along with a relevant word equation.
- Q14. Consider the following reactions –
- a. $A + BX \rightarrow AX + B$
 - b. $B + CY \rightarrow BY + C$
- Arrange A, B, C in the increasing order of their reactivity.
- Q15. What would happen when a Copper wire is dipped in Silver Nitrate solution ?
- Q16. Can you guess?
- a. Non-metal essential for our life
 - b. Non-metal used in fertilizers for growth of plants
 - c. Non-metal which is used in purification of water
 - d. Non-metal used as an antiseptic over wounds
 - e. Non-metal used in crackers
