



# INDIAN SCHOOL DARSAIT DEPARTMENT OF SCIENCE



Subject : Chemistry      Topic : Metals and Non metals      Date of Worksheet : 27.08.2019

Resource Person: Mrs Sandhya Jitheesh

Date :

Name of the Student : \_\_\_\_\_

Class & Division : VIII----

Roll Number : \_\_\_\_

- 1 Most metals react with dilute acids to produce :- 1  
a. hydrogen gas      b. oxygen gas      c. chlorine gas      d. nitrogen gas
- 2 Fill in the blanks :- 1  
a. Non-metals are generally \_\_\_\_\_, so they break into pieces on hammering. Mark  
b. Sodium and \_\_\_\_\_ are soft enough to be cut with a knife. each  
c. \_\_\_\_\_ is the only non- metal which is a good conductor of electricity.  
d. Metal oxides are \_\_\_\_\_ in nature because their solution in water turns red litmus blue.
- 3 What would happen if sodium and potassium are kept in open air? 1
- 4 A reaction in which more reactive metal replaces a less reactive metal from its salt solution is 1  
called :-  
a. addition reaction      b. double displacement reaction  
c. exothermic reaction      d. displacement reaction
- 5 Fill in the blanks :- 1  
a. Mercury is the only metal found in \_\_\_\_\_ state at room temperature. Mark  
b. Metals can be drawn into wires and this property is called ----- each  
c. The property of metals by which they can be hammered into very thin sheets without breaking  
is called-----.  
d. Metals are ----- conductors of heat and electricity.
- 6 Pick the odd one out of the following: 1  
Au/Ag/Pt/K/C
- 7 Cooking utensils are made of metals but their handles are made of wood or plastic, why? 1
- 8 Why is it advised not to store pickles and curd in metallic utensils? 1
- 9 a. Name the products formed when a piece of Sodium metal is added to water. 2  
b. When the solution so formed, is tested with litmus, what kind of colour change is expected?  
Reason out your answer.
- 10 Can you guess? 1  
a. Non-metal essential for our life. Mark  
b. Non-metal used in fertilizers for growth of plants. each  
c. Non-metal which is used in purification of water.  
d. Non-metal used as an antiseptic over wounds.  
e. Non-metal used in fire crackers.

- 11 Find out in which case reactions will occur and if so, the complete the equations. 1  
Mark  
each
- a.  $\text{CuSO}_4 + \text{Zn} \longrightarrow$
- b.  $\text{CuSO}_4 + \text{Fe} \longrightarrow$
- c.  $\text{Cu} + \text{ZnSO}_4 \longrightarrow$
- d.  $\text{Cu} + \text{FeSO}_4 \longrightarrow$
- e.  $\text{ZnSO}_4 + \text{Fe} \longrightarrow$
- 12 How do you test the presence of hydrogen gas? 1
- 13 Give reasons:- 1  
Mark  
each
- a. When an iron nail is placed in 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.