

# L-4

## Materials : Metals and Non-Metals

1. Following diagrams explain which Properties of metals .

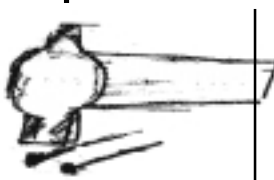

Beating iron nail with hammer

Passing electricity through any  
Material

.....

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2. Complete the following table --

|  |  |  |                       |
|--|--|--|-----------------------|
|  |  |  | Conductor / Insulator |
| 4) Aluminium wire<br>5) Wood<br>6) Rubber<br>7) Pencil lead<br>8) Salt solution    |  |  |                       |

3. Which gas burns with a pop sound

- |             |                          |                  |                          |
|-------------|--------------------------|------------------|--------------------------|
| a) Hydrogen | <input type="checkbox"/> | b) Nitrogen      | <input type="checkbox"/> |
| c) Oxygen   | <input type="checkbox"/> | d) Carbondioxide | <input type="checkbox"/> |

4. The property of metals, due to which they can draw into wires.

- |                |                          |                 |                          |
|----------------|--------------------------|-----------------|--------------------------|
| a) Conductance | <input type="checkbox"/> | b) Sonorous     | <input type="checkbox"/> |
| c) Ductility   | <input type="checkbox"/> | d) Malleability | <input type="checkbox"/> |

5. Nature of metal oxide is :

- a) Basic                       b) Acidic   
c) Neutral                       d) None of these

6. Non- metal, solution of which is used as an antiseptic on wounds.

- a) Potassium Dichromate                       b) Potassium permanganate   
c) Sodium chloride                       d) Copper Sulphate

7. Name the following type of reaction :-

Copper sulphate ( $\text{CuSO}_4$ ) + Zinc (Zn) = Zinc Sulphate ( $\text{ZnSO}_4$ ) + Cu (Copper)  
\_\_\_\_\_ (Displacement / addition)

8. Write any three differences between metals and non-metals on the basis of following characters -

| Property              | Metal | Non-Metal |
|-----------------------|-------|-----------|
| 1) Appearance         | _____ | _____     |
| 2) Conduction of heat | _____ | _____     |
| 3) Malleability       | _____ | _____     |
| 4) Ductility          | _____ | _____     |

Write one word for the following :

- i) Materials having properties of both metals and non-metals \_\_\_\_\_.  
ii) The property of metals due to which they produce sound \_\_\_\_\_.  
iii) The property of metals due to which they can be beaten into sheets \_\_\_\_\_.  
iv) Nature of metal oxides is \_\_\_\_\_.  
v) The property of metals by virtue of which they can be drawn into wires \_\_\_\_\_.