

METALS AND NON-METALS



CHAPTER AT A GLANCE

1. Introduction : Pure substances have characteristics different from mixture. Pure substances can further be classified into elements and compounds. On the basis of properties of elements, they are classified as (i) Metals, (ii) Non-metals, (iii) Metalloids.

2. Metals : Metals show metallic lustre, are generally hard, malleable and ductile. They are good conductors of heat and electricity. The following activities prove the above points :
Activity 1. Perform an activity to show that metals possess lustre.

Materials required : Copper strip, blade, piece of cloth.

Procedure :

- (1) Take a copper strip which has remained exposed to moisture and atmosphere for a long time. It will have a greenish coating of copper oxide and copper carbonate.
- (2) Rub the strip with a blade patiently for about five minutes [Fig. 3.1].
- (3) Clean the surface with a clean piece of cloth.

Result : We shall find that the surface which was dull earlier becomes shining red-brown which is the colour of copper. The activity proves that metals have lustre. All metals have lustre but the colours might be different.

Activity 2. Perform an activity to show, some metals can be cut with a knife.

Materials required : Iron, copper, aluminium, sodium and magnesium, knife, pair of tongs, filter paper, watch glass.

Procedure :

- (1) Take small pieces of iron, copper, aluminium and magnesium.
- (2) Try to cut these metals with a sharp knife.
What do you observe ?
Pieces of iron, copper, aluminium are hard and very difficult to cut with knife while magnesium can be cut.
- (3) Now hold a piece of sodium metal with a pair of tongs.
- (4) Put it on watch glass and try to cut it with a knife.
What do you observe ?

We observe that sodium metal can be cut easily with a sharp knife.

Activity 3. Perform an activity to prove that metals are malleable (can be beaten into sheets) and ductile (can be drawn into wires).

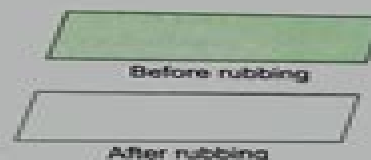


Fig. 3.1 Metals have metallic lustre

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Spectrum



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