

an International CBSE Fingerprint School
Coimbatore

Lesson – 8
Physical and Chemical Changes
Worksheet

I. Fill in the blanks

1. Photosynthesis is a _____ change.
2. The micro-organisms which convert the dead plants and animals to humus are known as _____.
3. The freezing point is _____°C at which water freezes.
4. Lactobacillus bacterium helps in the formation of _____.
5. Galvanization is the process of coating iron objects with the layer of _____ metal.

II. Correct the following sentences by replacing the highlighted words

1. Change in the physical properties of a substance is termed as **chemical** change.

Ans. _____

2. **Boiling** is the process in which water turns to ice when cold enough (below 0°C temperature.)

Ans. _____

3. Formation of new substances by change in one or more substances is called **physical** change.

Ans. _____

4. The process of deposition of brownish layer on iron when it is exposed to air and water is called **polishing**.

Ans. _____

5. **Melting** is the process of formation of solid crystals from solution.

Ans. _____

III. Match the following

- | Column I | Column II |
|--|--|
| 1. Iron (Fe)+ Oxygen (O ₂ , from air)+ water (H ₂ O) | a. Baking Soda |
| 2. MgO + H ₂ O -- | b. Blue Vitriol / CuSO ₄
Copper sulphate |
| 3. Sodium Hydrogen Carbonate (NaHCO ₃) | c. Mg (OH) ₂ |
| 4. Copper Sulphate Pentahydrate (CuSO ₄ · 5H ₂ O) | d) Rust (Iron Oxide)
Fe ₂ O ₃ |

IV. Choose the best answer

1. Properties which are affected during physical change :
 - a. Colour
 - b. Shape
 - c. Size
 - d. All of the above
2. Which of the following is not an example of crystallization :
 - a. Salt obtained from sea water
 - b. Snow flakes formation
 - c. Crystallization of sugar from sugar syrup.
 - d. Rusting of iron.
3. Example of chemical change is :
 - a. Dissolving sugar in water
 - b. Formation of clouds
 - c. Cooking of food
 - d. Cutting of trees
4. Which of the following can accompany a chemical change :
 - a. Heat
 - b. Sound
 - c. Gas
 - d. All of the above
5. Which of the following is an alloy :
 - a. Copper
 - b. Steel
 - c. Zinc
 - d. Aluminium