

**Chapter 6 : Physical and Chemical Change**

**Fill in the blanks :**

1. Changes that lead to the formation of new substances are called \_\_\_\_\_
2. Melting of candle wax is a \_\_\_\_\_ change but its burning is a \_\_\_\_\_ change.
3. Growth of a plant is a \_\_\_\_\_ change while formation of clouds is a \_\_\_\_\_ change.
4. A brown layer formed when an iron article is left exposed in air in an open area is called \_\_\_\_\_
5. Large crystals of pure substance are obtained by \_\_\_\_\_
6. The brown layer deposited on an iron nail dipped in copper sulphate solution is due to \_\_\_\_\_

**Name the following**

1. Write the chemical formula of lime water.
2. Write the chemical name of  $\text{Mg}(\text{OH})_2$
3. Write the chemical name and formula of rust.
4. Write the chemical name of blue vitriol.

**Complete the following chemical reactions :**

1. Magnesium oxide ( $\text{MgO}$ ) + water ( $\text{H}_2\text{O}$ )  $\longrightarrow$  \_\_\_\_\_
2. Iron ( $\text{Fe}$ ) + oxygen ( $\text{O}_2$ ) + water ( $\text{H}_2\text{O}$ )  $\longrightarrow$  \_\_\_\_\_
3. Carbon dioxide ( $\text{CO}_2$ ) + Lime water [ $\text{Ca}(\text{OH})_2$ ]  $\longrightarrow$  \_\_\_\_\_ + \_\_\_\_\_
4. Copper sulphate + Iron  $\longrightarrow$  \_\_\_\_\_ + \_\_\_\_\_

**Define**

1. Crystallization

2. Galvanization

**Distinguish between**

1. Physical change and chemical change