
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 (MgO) + water (H_2O) $\xrightarrow{\hspace{2cm}}$
2. Iron (Fe) + oxygen (O_2) + water (H_2O) $\xrightarrow{\hspace{2cm}}$
3. Carbon dioxide (CO_2) + Lime water [$\text{Ca}(\text{OH})_2$] $\xrightarrow{\hspace{2cm}} + \xrightarrow{\hspace{2cm}}$
4. Copper sulphate + Iron $\xrightarrow{\hspace{2cm}} + \xrightarrow{\hspace{2cm}}$

Define

1. Crystallization
2. Galvanization

Distinguish between

1. Physical change and chemical change
-