

Chemistry Worksheet Class X
Acids, Bases and Salts

1. Explain the action of dilute hydrochloric acid on the following with chemical equations
 - a. Magnesium ribbon
 - b. Sodium hydroxide
 - c. Crushed egg shells
2. A white powder is added while baking breads and cakes to make them soft and fluffy. Write the name of the powder? Name its main ingredients. Explain the function of each ingredient.
3. A white coloured powder is used by doctors for supporting fractured bones.
 - a. Write chemical name and formula of the powder.
 - b. When this white powder is mixed with water a hard-solid mass is obtained.
 - c. Write balanced chemical equation for the change.
4. A gas X reacts with lime water and forms a compound Y which is used as a bleaching agent in chemical industry. Identify X and Y. Give the chemical equation for the reaction involved.
5. What is baking soda chemically called? Give reaction involved in its preparation. Write one of its uses.
6. Name the compound which is obtained from baking soda and is used to remove permanent hardness of water. Write its chemical formula. How is it prepared from NaCl?
7. Write chemical formula of plaster of paris and gypsum.
8. Explain the following chemical properties of acids with the help of balanced equations:
 - a. When an acid reacts with a metal carbonate
 - b. When an acid reacts with a metal bicarbonate
 - c. When an acid reacts with a metal oxide
9. You are given three solutions A, B and C with pH values 2, 10 and 13 respectively. Write which solution has more hydrogen ion concentration. State the nature of each.
10. Identify the acid and the base whose combination gives the common salt that you use in food. Write its formula and chemical name of this salt. Name the source from where it is obtained.
11. What is rock salt? Mention its colour and the reason due to which it has this colour.
12. While diluting an acid, why is it recommended that the acid should be added to water and not water to acid.