Acids, Bases and Salts

Chapter 5: Acids, Bases and Salts · Topic 1

Key Concept

Acids release hydrogen ions (H+) in water, taste sour, and react with metals to produce hydrogen gas and with bases to neutralise.

Bases release hydroxide ions (OH-) in water, taste bitter, feel soapy, and react with acids in neutralisation reactions.

Salts form when acids react with bases (neutralisation), producing salt and water as products of this reaction.

The pH scale (0-14) measures acidity or basicity, with indicators like litmus paper helping identify a substance's nature.

Quick Revision Notes

- Acids: release H+ ions, sour taste.
- React with metals (H2 gas), bases (neutralise).
- Bases: release OH- ions, bitter, soapy.
- React with acids in neutralisation.
- Salts form via acid-base neutralisation.
- Products: salt and water.
- pH scale: 0-14 measures acidity/basicity.
- Litmus paper indicates substance nature.

Practice Questions

1. Test a household substance's pH using litmus.
2. Write the neutralisation reaction between an acid and base.
3. Discuss the properties of acids.
4. Discuss the properties of bases.
5. Research the pH of common substances.
6. Explain acids, bases, and salts in your own words.