

# 8

## Acids, bases and salts

### Key objectives

By the end of this section, you should be able to:

- describe the characteristic reactions of acids
  - state that bases are oxides or hydroxides of metals
  - state that alkalis are soluble bases
  - describe the characteristic reactions of bases
  - state that aqueous solutions of acids contain  $H^+$  ions and aqueous solutions of alkalis contain  $OH^-$  ions
  - describe how to use pH, as measured with universal indicator paper, to compare hydrogen ion concentration, neutrality, relative acidity and alkalinity
  - describe the neutralisation reaction
- define acids and bases in terms of proton transfer
  - explain the difference between weak and strong acids in terms of dissociation
- classify oxides as acidic, basic or amphoteric, with examples
  - describe the general solubility rules for salts
  - describe the preparation of soluble salts by the reaction of an acid with:
    - an alkali
    - excess metal, insoluble base or carbonate
- describe the preparation of insoluble salts by precipitation
- define a hydrated substance and an anhydrous substance
- define the term water of crystallisation in crystals, including  $CuSO_4 \cdot 5H_2O$  and  $CoCl_2 \cdot 6H_2O$

### Key terms

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Term	Definition
<b>Acid</b>	A substance which dissolves in water, producing $H^+(aq)$ ions as the only positive ion. <b>A proton (<math>H^+</math>) donor.</b>
<b>Alkali</b>	A soluble base which produces $OH^-(aq)$ ions in water.
<b>Anhydrous salt</b>	A salt which has had its water of crystallisation removed.
<b>Base</b>	A substance which neutralises an acid, producing a salt and water as the only products. Bases are oxides or hydroxides of metals. (Ammonia is also a base.) <b>A proton (<math>H^+</math>) acceptor.</b>
<b>Indicator</b>	A substance that shows whether a substance is acidic or alkaline by changing colour.
<b>Neutralisation</b>	The process in which an acid reacts with a base to form water.
<b>pH scale</b>	A scale running from 0 to 14 used to express the acidity or alkalinity of a substance.
<b>Saturated solution</b>	A solution containing the maximum amount of dissolved solute in the solvent at a given temperature.
<b>Water of crystallisation</b>	Water incorporated into the structure of a substance as it crystallises, for example in copper(II) sulfate pentahydrate ( $CuSO_4 \cdot 5H_2O$ ).

### 8.1 Acids and alkalis

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#### Acids

**Acids** are substances that produce  $H^+$  ions when they are dissolved in water.

Acids are defined as proton ( $H^+$ ) donors.

# Chapter 8 Acids Bases And Ph Quia

**G Orfield**



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*United States Government Publications Monthly Catalog* ,1949      Catalogue of Publications Issued by the Government of the United States United States. Superintendent of Documents,1949-07 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index      *Cumulated Index Medicus* ,1974      The Encyclopaedic Dictionary ,1896      *Lloyd's Encyclopaedic Dictionary* ,1896      *The Encyclopaedic Dictionary* Robert Hunter,1886

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