

AP CHEMISTRY

Volume 1: Your Second Year Study

Properties of Solids

Crystalline Solids

- Have a regular, repeating arrangement of particles (atoms, ions, or molecules).
- Have sharp melting points.
- Can be cleaved along flat planes.

Amorphous Solids

- Do not have a regular arrangement of particles.
- Do not have sharp melting points.
- Do not cleave along flat planes.

Intermolecular Forces

- London Dispersion Forces:** Present in all molecules, but only significant in nonpolar molecules.
- Dipole-Dipole Forces:** Present in polar molecules.
- Hydrogen Bonding:** A special type of dipole-dipole force between molecules containing N, O, or F.

Periodic Table & Ionization Energies

Ionization Energy Trends:

- Increases from bottom-left to top-right.
- Decreases from top-left to bottom-right.

Properties of the Periodic Table

- Metals:** Located on the left side of the table.
- Nonmetals:** Located on the right side of the table.
- Metalloids:** Located between metals and nonmetals.
- Groups:** Vertical columns of elements.
- Periods:** Horizontal rows of elements.

Electronegativity Table

Electronegativity Trends:

- Increases from bottom-left to top-right.
- Decreases from top-left to bottom-right.

Types of Chemical Calculations

Stoichiometry

- Calculating the amount of one substance from the amount of another.
- Using balanced chemical equations.

Thermochemistry

- Calculating heat changes in chemical reactions.
- Using enthalpy of formation.

Equilibrium

- Calculating the concentrations of reactants and products at equilibrium.
- Using equilibrium constants.

Acids & Bases

Acids

- Donate protons (H^+).
- Have a sour taste.
- Turn blue litmus paper red.

Bases

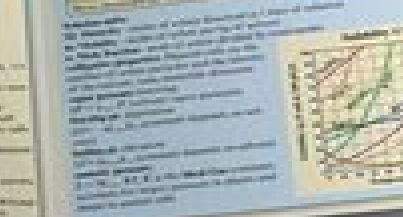
- Accept protons (H^+).
- Have a bitter taste.
- Turn red litmus paper blue.

Neutralization

Acid + Base → Salt + Water

Acid-Base Reactions

Acid	Base	Salt	Water
HCl	$NaOH$	$NaCl$	H_2O
H_2SO_4	KOH	K_2SO_4	$2H_2O$
HNO_3	$Ca(OH)_2$	$Ca(NO_3)_2$	$2H_2O$



Organic Chemistry

Alkanes

- Saturated hydrocarbons.
- General formula: C_nH_{2n+2} .

Alkenes

- Unsaturated hydrocarbons.
- General formula: C_nH_{2n} .

Alkynes

- Unsaturated hydrocarbons.
- General formula: C_nH_{2n-2} .

AP Chemistry Exam

Multiple Choice

- 40 questions.
- 1 hour and 15 minutes.

Free Response

- 5 questions.
- 1 hour and 45 minutes.

Scoring

- 1-10 for each question.
- Total score: 1-100.

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web coraline jones coraline is the 11 year old main character she is a young explorer who is curious intelligent resourceful and courageous coraline is often irritated by rain crazy grown ups as they all seem to be and not being taken seriously because of

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web it leads coraline to a small door with a brick wall behind it that night a jumping mouse leads coraline back to the door now a portal leading to the other world an alternate universe where her parents button eyed doppelgängers lavish her with food and attention upon waking coraline has returned to the real world