



Sterling AP Chemistry Practice Questions: High Yield AP Chemistry Questions (Sterling Test Prep)

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AP Chemistry best seller! NEW complete explanations!

900 chemistry practice questions with detailed explanations covering all topics tested on AP Chemistry:

- Electronic and atomic structure of matter
- Periodic table
- Chemical bonding
- States of matter: gases, liquids, solids
- Solution chemistry
- Acids and bases
- Stoichiometry
- Equilibrium and reaction rates
- Thermochemistry
- Electrochemistry

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Editorial Review

From the Author

Scoring well on the AP Chemistry is important for your chemistry placement credit and for admission into a college of your choice. To achieve a high score, you need to develop skills to properly apply the knowledge you have and quickly choose the correct answer. You must solve numerous practice questions that represent the style and content of the AP Chemistry questions. Understanding key science concepts is more valuable than memorizing terms.

This book provides 900 chemistry practice questions that test your knowledge of all AP Chemistry topics. At the back of the book, you will find answer keys (use them to verify your answers) and explanations to questions. These explanations provide step-by-step solutions for quantitative questions and detailed explanations for conceptual questions.

The explanations also cover the foundations of important chemistry topics needed to answer related questions on the exam. By reading these explanations carefully and understanding how they apply to solving the question, you will learn important chemistry concepts and the relationships between them. This will prepare you for the test and you will significantly increase your score.

All the questions are prepared by our science editors who possess extensive credentials and are educated in top colleges and universities. Our editors are experts on teaching sciences, preparing students for standardized science tests and have coached thousands of undergraduate and graduate school applicants on admission strategies.

Used books may have outdated content. We make content updates regularly based on customers' comments, editorial input and latest test changes. The most current version is only available directly from Amazon (*sold & shipped by Amazon*), Barnes & Noble and Sterling Test Prep web store.

From the Inside Flap

Test-Taking Strategies

AP Chemistry Equations& Constants

Electronic and Atomic Structure of Matter;Periodic Table

- Atomic structure, quantum numbers, energy levels (orbitals)
- Electron configurations, periodic trends
- Molecular structure (Lewisstructures, three-dimensional molecular shapes, polarity)
- Chemical and physical properties of the elements

Bonding

- Bonding properties and structures
- Ionic, covalent, metallic bonds
- Intermolecular forces (hydrogen bonding,dipole-dipole, London dispersion forces)

States of Matter: Gases, Liquids, Solids

- Gas law relationships
- Kinetic molecular theory
- Molar volumes, density
- Types of solids, phase changes, phase diagrams
- Intermolecular forces

Solution Chemistry

- Solution preparation and stoichiometry
- Molarity and percent by mass concentrations
- Solubility of solids, liquids and gases
- Qualitative aspects of colligative properties
- Precipitation and solubility rules

Acids and Bases

- Strong and weak acids and bases
- Brønsted-Lowry theory
- pH, titrations, indicators
- Oxidation-reduction reactions

Stoichiometry

- Molar mass, Avogadro's number
- Empirical and molecular formulas
- Balancing of chemical equations
- Stoichiometric calculations, percent yield, limiting reactants

Equilibrium and Reaction Rates

- Equilibrium systems
- LeChâtelier's principle and position of equilibrium
- Equilibrium constants, equilibrium expressions
- Factors affecting reaction rates
- Potential energy, activation energy

Thermochemistry

- Conservation of energy
- Enthalpy changes and phase changes
- Calorimetry and specific heats
- Chemical reactions, heating and cooling curves, entropy

Electrochemistry

- Galvanic and electrolytic cells
- Redox reactions (including half-reactions) within electrochemical cells
- Standard reduction potentials, oxidation number

Answer Keys & Explanations

From the Back Cover

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you have and quickly choose the correct answer. You must solve numerous practice questions that represent the style and content of the AP Chemistry questions. Understanding key science concepts is more valuable than memorizing terms.

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Users Review

From reader reviews:

Lois Yale:

Sterling AP Chemistry Practice Questions: High Yield AP Chemistry Questions (Sterling Test Prep) can be one of your basic books that are good idea. Many of us recommend that straight away because this reserve has good vocabulary that could increase your knowledge in terminology, easy to understand, bit entertaining but nonetheless delivering the information. The copy writer giving his/her effort that will put every word into delight arrangement in writing Sterling AP Chemistry Practice Questions: High Yield AP Chemistry Questions (Sterling Test Prep) although doesn't forget the main level, giving the reader the hottest as well as based confirm resource details that maybe you can be one of it. This great information could drawn you into fresh stage of crucial considering.

Judith Mandel:

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