

AP Chemistry Final Study Guide

Unit 1: Atomic Structure and Properties (7%–9%)

- At STP, one mole of gas always occupies 22.4 L
- **Mass Spectroscopy:**
 - Atoms have different isotopes (carbon-12, carbon-14, etc) and this will affect the average atomic mass
 - The most abundant isotope will have the greatest effect
- **Coulomb's Law:**
 - The greater the charge of the nucleus, the more energy is required to ionize an electron
 - The closer an electron is to the nucleus, the more energy is required to ionize an electron
- **Electromagnetic Radiation:**
 - When atoms absorb energy, electrons jump to higher energy levels
 - When electrons drop from higher to lower energy levels, atoms give off electromagnetic radiation energy
- **Kinetic Energy of Ionized Electrons:**
 - The faster an ejected electron is going, the more kinetic energy it has
 - Electrons originally further away from the nucleus require less energy to eject, so it will have more kinetic energy
- **Electron Configuration:**
 - When entering the d-block (transition metals), the energy level drops by 1 unless you are using shorthand notation
 - Nickel: $1s^2 2s^2 2p^6 3s^2 3p^6 3d^8 4s^2$ (notice the d-block)
 - Nickel (with shorthand): $[\text{Ar}] 4s^2 3d^8$
- **Law of Definite Proportions:**
 - A pure chemical compound broken down into elements always contains elements of a fixed ratio, independent of where and how it was created
- **Law of Multiple Proportions:**
 - When elements form compounds, the proportions of the elements in those chemical compounds can be expressed in small whole number ratios
- **Aufbau Principle:**
 - When building up the electron configuration of an atom, electrons are placed in orbitals, subshells, and shells in order of increasing energy

Ap Chem Study Guide

The Princeton Review



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ASAP Chemistry: a Quick-Review Study Guide for the AP Exam The Princeton Review, 2018-11-15 Subtitle on cover A quick review study guide for the AP Exam AP Chemistry P. E. Dumas, R. M. Fikar, J. W. Samples, W. C. Uhland, 2008-01-22 REA Real review Real practice Real results Get the college credits you deserve AP CHEMISTRY 10th Edition Completely aligned with today's AP exam Are you prepared to excel on the AP exam Set up a study schedule by following our results driven timeline Take the first practice test to discover what you know and what you should know Use REA's advice to ready yourself for proper study and success Practice for real Create the closest experience to test day conditions with 6 full length practice tests Chart your progress with full and detailed explanations of all answers Boost your confidence with test taking strategies and experienced advice Sharpen your knowledge and skills The book's full review features coverage of all AP Chemistry main topic areas such as solutions stoichiometry kinetics and thermodynamics as well as all subject areas found on the official exam including the structure of matter the states of matter chemical reactions and descriptive chemistry Smart and friendly lessons reinforce necessary skills Key tutorials enhance specific abilities needed on the test Targeted drills increase comprehension and help organize study Ideal for Classroom Family or Solo Test Preparation REA has provided advanced preparation for generations of advanced students who have excelled on important tests and in life REA's AP study guides are teacher recommended and written by experts who have mastered the course and the test

AP Chemistry For Dummies Peter J. Mikulecky, Michelle Rose Gilman, Kate Brutlag, 2008-11-13 A practical and hands on guide for learning the practical science of AP chemistry and preparing for the AP chem exam Gearing up for the AP Chemistry exam AP Chemistry For Dummies is packed with all the resources and help you need to do your very best Focused on the chemistry concepts and problems the College Board wants you to know this AP Chemistry study guide gives you winning test taking tips multiple choice strategies and topic guidelines as well as great advice on optimizing your study time and hitting the top of your game on test day This user friendly guide helps you prepare without perspiration by developing a pre test plan organizing your study time and getting the most out of your AP course You'll get help understanding atomic structure and bonding grasping atomic geometry understanding how colliding particles produce states and so much more To provide students with hands on experience AP chemistry courses include extensive labwork as part of the standard curriculum This is why the book dedicates a chapter to providing a brief review of common laboratory equipment and techniques and another to a complete survey of recommended AP chemistry experiments Two full length practice exams help you build your confidence get comfortable with test formats identify your strengths and weaknesses and focus your studies You'll discover how to Create and follow a pretest plan Understand everything you must know about the exam Develop a multiple choice strategy Figure out displacement combustion and acid base reactions Get familiar with stoichiometry Describe patterns and predict properties Get a handle on organic chemistry nomenclature Know your way around laboratory

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Cracking the AP Chemistry Exam, 2018 Edition Princeton Review,2017-08 Provides subject review for the AP chemistry exam and includes two full length practice tests 5 Steps to a 5: AP Chemistry 2021 Elite Student Edition John T. Moore,Richard H.

Langley,2020-10-01 MATCHES THE LATEST EXAM In this hybrid year let us supplement your AP classroom experience with this multi platform study guide The immensely popular 5 Steps to a 5 AP Chemistry Elite Student Edition has been updated for the2020 21 school year and now contains 3 full length practice exams available both in the book and online that reflect the latest exam 5 Minutes to a 5 section a 5 minute activity for each day of the school year that reinforces the most important concepts covered in class Up to Date Resources for COVID 19 Exam Disruption Access to a robust online platform Comprehensive overview of the AP Chemistry exam format Hundreds of practice exercises with thorough answer explanations Proven strategies specific to each section of the test A self guided study plan including flashcards games and

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CliffsNotes AP Chemistry Bobrow Test Preparation Services, 2009-02-09. The book itself contains chapter-length subject reviews on every subject tested on the AP Chemistry exam as well as both sample multiple-choice and free-response questions at each chapter's end. Two full-length practice tests with detailed answer explanations are included in the book.

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5 Steps to a 5: 500 AP Chemistry Questions to Know by Test Day, Third Edition Mina Lebitz, 2019-02-21. 500 AP-style questions with detailed answer explanations to prepare you for what you'll see on test day. 5 Steps to a 5: 500 AP Chemistry Questions to Know by Test Day gives you 500 practice questions that cover the most essential course material and help you work toward a 5 on the test. The questions parallel the format and degree of difficulty that you'll find on the actual AP exams and are accompanied by answers.

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Cracking the AP Chemistry Exam, 2016 Edition Princeton Review, 2015-08-11

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