

# 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 Chemistry Midterm Study Guide

**Princeton Review (Firm)**



## **Ap Chemistry Midterm Study Guide:**

*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 *ASAP Chemistry: A Quick-Review Study Guide for the AP Exam* The Princeton Review, 2019-02-12 Looking for sample exams practice questions and test taking strategies Check out our extended in depth AP chem prep guide *Cracking the AP Chemistry Exam LIKE CLASS NOTES ONLY BETTER* The Princeton Review s *ASAP Chemistry* is designed to help you zero in on just the information you need to know to successfully grapple with the AP test No questions no drills just review Advanced Placement exams require students to have a firm grasp of content you can t bluff or even logic your way to a 5 Like a set of class notes borrowed from the smartest student in your grade this book gives you exactly that No tricks or crazy stratagems no sample essays or practice sets Just the facts presented with lots of helpful visuals Inside *ASAP Chemistry* you ll find Essential concepts terms and functions for AP Chem all explained clearly concisely Diagrams charts and graphs for quick visual reference A three pass icon system designed to help you prioritize learning what you MUST SHOULD and COULD know in the time you have available Ask Yourself questions to help identify areas where you might need extra attention A resource that s perfect for last minute exam prep and for daily class work Topics covered in *ASAP Chemistry* include Atomic structure Covalent bonding intermolecular forces Thermochemistry Acids bases and more

*AP Chemistry* P. E. Dumas, R. M. Fikar, J. W. Samples, W. C. Umland, 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 2020 & 2021: AP Chemistry Review Book and Practice Questions for the Advanced Placement Chem Exam* Test Prep Books, 2019-11-21 Test Prep Books *AP Chemistry 2020 2021 AP Chemistry Review Book and Practice Questions for the Advanced Placement Chem Exam* Made by Test Prep Books experts for test takers trying to achieve a great score on the AP Chemistry exam This comprehensive study guide

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**AP Chemistry Exam Study Guide** Accepted,2019-09-19 **Cracking the AP Chemistry Exam, 2016 Edition** Princeton Review,2015-08-11

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**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

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**Cliffsnotes AP Chemistry** Angela Woodward Spangenberg, 2016 CliffsNotes AP Chemistry reflects recent changes to the AP Chemistry exam and includes subject review chapters and two full length practice AP Chemistry exams

**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 the 2020 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 more online

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**Chemistry, AP Achiever Test Prep** Lisa McGaw,2009-05-27 Specifically designed to help your Advanced Placement students succeed this three part guide works together with the time honored text Chemistry by Raymond Chang to provide your students with An introduction to the Chemistry Advanced Placement Course and Exam including tips on essay writing for the free response portion of the Exam Concepts skills and summaries that reinforce key material Each chapter also includes Take Note sections to guide students through the most important information most likely featured on the AP Exam as well as practice multiple choice and essay questions with explanations Two complete practice exams parallel the AP Chemistry Exam in terms of question type and number of questions Each practice exam is also similar to the AP Exam with regard to content style and format and it includes answers and thorough explanations for your students

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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

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**Cracking the AP Chemistry Exam, 2014 Edition** Princeton Review (Firm), Paul Foglino, 2013-08-06 Provides techniques for achieving high scores on the AP chemistry exam and includes two full length practice tests a subject review for all topics and sample questions and answers

*Cracking the AP Chemistry Exam, 2017 Edition* Princeton Review (Firm), 2016-08 2 full length practice tests with complete answer explanations Cover

McGraw-Hill Education 500 AP Chemistry Questions to Know by Test Day, 2nd edition Mina Lebitz, 2015-10-30 Get ready for your AP Chemistry exam with 500 AP Chemistry questions updated for all the latest exam changes We want you to succeed on your AP exams That's why we've selected these 500 questions to help you study more effectively use your preparation time wisely and get your best score These AP style questions and answers are similar to the ones you'll find on the exam so you will know what to expect on your test day Each question includes detailed explanation with right and wrong answers to enhance your full understanding of the concepts Whether you are just beginning your test preparation or doing a last minute review

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## Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Ap Chemistry Midterm Study Guide**

In a world inundated with screens and the cacophony of immediate transmission, the profound power and psychological resonance of verbal artistry usually fade into obscurity, eclipsed by the continuous onslaught of noise and distractions. However, nestled within the lyrical pages of **Ap Chemistry Midterm Study Guide**, a fascinating perform of fictional elegance that impulses with natural thoughts, lies an wonderful journey waiting to be embarked upon. Published with a virtuoso wordsmith, this exciting opus guides readers on a psychological odyssey, lightly exposing the latent potential and profound influence stuck within the complex web of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is central styles, dissect its fascinating writing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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