

# 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**

## Ap Chem Study Guide:

**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

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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 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

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## Table of Contents Ap Chem Study Guide

1. Understanding the eBook Ap Chem Study Guide
  - The Rise of Digital Reading Ap Chem Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Ap Chem Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ap Chem Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Chem Study Guide
  - Personalized Recommendations
  - Ap Chem Study Guide User Reviews and Ratings
  - Ap Chem Study Guide and Bestseller Lists

5. Accessing Ap Chem Study Guide Free and Paid eBooks
  - Ap Chem Study Guide Public Domain eBooks
  - Ap Chem Study Guide eBook Subscription Services
  - Ap Chem Study Guide Budget-Friendly Options
6. Navigating Ap Chem Study Guide eBook Formats
  - ePUB, PDF, MOBI, and More
  - Ap Chem Study Guide Compatibility with Devices
  - Ap Chem Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ap Chem Study Guide
  - Highlighting and Note-Taking Ap Chem Study Guide
  - Interactive Elements Ap Chem Study Guide
8. Staying Engaged with Ap Chem Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ap Chem Study Guide
9. Balancing eBooks and Physical Books Ap Chem Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ap Chem Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Ap Chem Study Guide
  - Setting Reading Goals Ap Chem Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ap Chem Study Guide
  - Fact-Checking eBook Content of Ap Chem Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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