

# 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 Test Study Guide

**Michael D'Alessio**



## **Ap Chemistry Test Study Guide:**

**AP Chemistry Exam Study Guide** Accepted, 2019-09-19 *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 2021 and 2022 Test Prep* Tpb Publishing, 2020-12-16 Test Prep Books AP Chemistry 2021 and 2022 Test Prep AP Chem Review Book with Practice Exam Questions 2nd Edition Study Guide Made by Test Prep Books experts for test takers trying to achieve a great score on the AP Chemistry exam This comprehensive study guide includes Quick Overview Find out what's inside this guide Test Taking Strategies Learn the best tips to help overcome your exam Introduction Get a thorough breakdown of what the test is and what's on it Unit 1 Atomic Structure and Properties Unit 2 Molecular and Ionic Compound Structure and Properties Unit 3 Intermolecular Forces and Properties Unit 4 Chemical Reactions Unit 5 Kinetics Unit 6 Thermodynamics Unit 7 Equilibrium Unit 8 Acids and Bases Unit 9 Applications of Thermodynamics Practice Questions Practice makes perfect Detailed Answer Explanations Figure out where you went wrong and how to improve Disclaimer AP R and Advanced Placement R are trademarks registered by the College Board which is not affiliated with and does not endorse this product Studying can be hard We get it That's why we created this guide with these great features and benefits Comprehensive Review Each section of the test has a comprehensive review created by Test Prep Books that goes into detail to cover all of the content likely to appear on the test AP Chemistry Practice Test Questions We want to give you the best practice you can find That's why the Test Prep Books practice questions are as close as you can get to the actual test Answer Explanations Every single problem is followed by an answer explanation We know it's frustrating to miss a question and not understand why The answer explanations will help you learn from your mistakes That way you can avoid missing it again in the future Test Taking Strategies A test taker has to understand the material that is being covered and be familiar with the latest test taking strategies These strategies are necessary to properly use the time provided They also help test takers complete the test without making any errors Test Prep Books has provided the top test taking tips Customer Service We love taking care of our test takers We make sure that you interact with a real human being when you email your comments or concerns Anyone planning to take this exam should take advantage of this Test Prep Books study guide Purchase it today to receive access to AP Chemistry review materials AP Chemistry practice questions Test taking strategies **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 includes Quick Overview Find out what's inside this guide Test Taking Strategies Learn the best tips to help overcome your exam Introduction Get a thorough breakdown of what the test is and what's on it Atomic Structure and Properties Molecular and Ionic Compound Structure and Properties Intermolecular Forces

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### **Table of Contents Ap Chemistry Test Study Guide**

1. Understanding the eBook Ap Chemistry Test Study Guide
  - The Rise of Digital Reading Ap Chemistry Test Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Ap Chemistry Test 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 Chemistry Test Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Chemistry Test Study Guide

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

- Fact-Checking eBook Content of Ap Chemistry Test 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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