

# 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

# Chemistry Final Review Guide

**Accepted**



## **Chemistry Final Review Guide:**

**AP Chemistry Exam Study Guide** Accepted, 2019-09-19 **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 **Certified Respiratory Therapist Exam Review Guide** Craig Scanlan, Albert Heuer, Louis Sinopoli, 2010-11-15 Certified Respiratory Therapist Review Guide is a comprehensive study guide for respiratory therapy students and graduates of accredited respiratory therapy education programs who are seeking to take the entry level Certified Respiratory Therapist CRT credentialing exam from the National Board for Respiratory Care NBRC This unique review guide devotes extensive coverage to two problematic areas for credentialing exam candidates which are not covered in any of the other texts 1 test taking skills and 2 key points to remember in taking the NBRC computerized exams Special emphasis is also given to material and subject areas which have proven to be especially challenging for exam candidates such as basic pulmonary function testing arterial blood gas ABGs interpretation monitoring critically ill ICU patients neonatal and pediatric care recommending modifications to therapy and more Certified Respiratory Therapist Review Guide is authored by experts who take the credentialing exam annually so you can be sure the content and format of this guide is current **Admission Assessment Exam Review E-Book** HESI, 2016-02-04 Passing your admission assessment exam is the first step on the journey to becoming a successful health professional make sure you're prepared with Admission Assessment Exam Review 4th Edition From the testing experts at HESI this user friendly guide walks you through the topics and question types found on admission exams including math reading comprehension vocabulary grammar biology chemistry anatomy and physiology and physics The guide includes hundreds of sample questions step by step explanations illustrations and comprehensive practice exams to help you review the subject areas and hone your test taking skills Plus the pre test and post test help identify your specific areas of weakness so you can focus your study time on the subjects you need most If you want to pass the HESI Admission Assessment Exam or any other admissions assessment exam for health professions that you may encounter there's no better resource than HESI's Admission Assessment Exam Review HESI Hints boxes offer valuable test taking tips as well as rationales suggestions examples and reminders for specific topics Step by step explanations and sample problems in the math section show you how to work through each problem so you understand the steps it takes to complete the equation Sample questions in all other sections prepare you for the questions you will face on the A2 Exam User friendly vocabulary chapter covers more of the medical terminology that you will face on the A2 Exam Easy to read format with consistent section features includes an introduction key terms chapter outline and a bulleted summary to better help you organize your review time and understand the information Full color layout and illustrations visually reinforce key concepts for better understanding NEW 25 question pre test at the beginning of

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Silbert-Flagg, Elizabeth D. Sloand, 2015-09-18 Pediatric Nurse Practitioner Certification Review Guide Primary Care Sixth Edition is an essential resource for nurses preparing to take certification examinations offered by the Pediatric Nursing Certification Board PNCB and the American Nurses Credentialing Center ANCC Completely updated and revised it reflects the most current guidelines and standards of practice The Sixth Edition includes new content on asthma learning disabilities mental and behavioral health problems obesity violence substance abuse and sexually transmitted infections Also incorporated are the concept of health care homes or medical homes providing culturally sensitive and competent care and the use of complementary and alternative medicine CAM **EPA Publications Bibliography Quarterly Abstract**

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