

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

Spring Semester Final Study Guide Honors Chem

Yale Daily News Staff



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Resources in Education, 1997 **The Official Guide to Catholic Educational Institutions and Religious Communities in the United States**, 1971 **A Civilian's Guide to the U.S. Military** Barbara Schading, Richard Schading, Virginia Holeman, 2006-12-22 Attention Learn more about your military now Does a corporal have to salute a lieutenant or is it the other way around What are forward deployed units Is an armored cow a type of tank or something soldiers eat Are Polaris missiles dropped from the air or launched from a submarine If someone calls you a Cat 4 should you be honored or offended Do you feel lost when it comes to all things military Sure you hear things on the news and maybe you know someone who is in the military but you probably have a hard time fully grasping the acronyms equipment and protocol they discuss That's where *A Civilian's Guide to the U S Military* can help Author Barbara Schading decodes all things military for you She discusses each branch Army Navy Marines Air Force and the Coast Guard in simple terms you can understand You'll get the background information an easy to read chart showing rank and insignia and an explanation of the organization of each branch In addition the book has extensive glossaries that cover terms acronyms slang and equipment You'll find an entire chapter that covers special operations forces like the Green Berets Force Recon Army Rangers and more You'll learn about their specific training missions and history The book also covers other important aspects of the military like flag and saluting etiquette military funerals the Tombs of the Unknown the American Legion USO Veterans of Foreign Wars and other groups military law military academies medals and decorations official military music an explanation of the Geneva Convention and a list of resources to help you find more information So the next time you read the paper or talk with a new recruit you don't have to feel lost Become a knowledgeable civilian with the help of *A Civilian's Guide to the U S Military*

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Esquire,2012-08-03 IMPLEMENTING THE ELIGIBILITY COACH S GAME PLAN MAY SAVE YOU THOUSANDS Knowing one simple mistake can turn a scholarship celebration into a frantic search for 15 000 60 000 to finance the first year of college Marlynn Jones serves as a personal coach through the maze of legislation involved in acquiring a college athletic scholarship Eligibility Coach addresses the Top 21 Common Mistakes made during the Certification Process and answers these important questions What is Amateurism Certification What core courses are required for Certification How does the sliding scale work How to transfer between schools and be eligible to compete Are there additional requirements for International Students Eligibility Coach provides a much needed resource for athletic directors coaches and counselors to use for student athletes in preparing them for NCAA and NAIA eligibility certification This coaching guide needs to be implemented sooner rather than later Dr Jason Pappas Assistant Director of Athletics for Student Athlete Services Florida State University The Eligibility Coach helped us understand NCAA regulations and timelines as well as prepared us for both official and home visits We knew what to expect throughout the process and what questions to ask After considering offers in gymnastics from several Division I universities our daughter accepted a full athletic scholarship and is a Dean s List student competing for the University of North Carolina at Chapel Hill She was recently admitted to medical school and received a 2012 Post Graduate Scholarship Award from the Atlantic Coast Conference ACC Darrell and Tedra Brown Gymnastics Parents in North Carolina If you are looking for a blueprint on how to transition from high school to college athletics search no further Eligibility Coach is an easy to read how to guide regarding athletic scholarships that every high school coach athletic director and parent must have Kenny Williamson Assistant General Manager Memphis Grizzlies [American Universities and Colleges](#) ,2014-10-08 No detailed description available for American Universities and Colleges *Conquering College* Victor Cahn,2009-06-16 High school students receive a great deal of advice about gaining admission to college but much less about what to do when they arrive there More than ever a college education represents a major investment of time and money In this perceptive and witty guide written by an experienced teacher and counselor of both high school and college students Victor L Cahn presents future undergraduates and their parents with a blueprint for how best to use these vital four years With singular candor he discusses the potential pitfalls and rewards of campus life including the transition from high school the challenges of academic personal and social freedom and the opportunities offered by courses professors and extracurricular programs All this information is presented in the context of one central theme that college is preparation not simply for a career but for life **The Unofficial, Unbiased Guide to the 331 Most Interesting Colleges 2005** Kaplan, Inc,2004-06-22 Engaging and informative The Unofficial Unbiased Guide to the 331 Most Interesting Colleges 2005 is a must read reference for every college bound student **The Insider's Guide to the Colleges, 2014** Yale Daily News Staff,2013-07-09 Students on campus tell you what you really want to know Cover **American Universities and Colleges** James J. Murray,2021-06-21 No detailed description available for American Universities and Colleges [The Churchman](#) ,1885 **The New**

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