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: 1s²2s²2p⁶3s²3p⁶3d⁸4s²(notice the d-block)
 - Nickel (with shorthand): [Ar]4s²3d⁸
- 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

The Princeton Review

Ap Chemistry Test Study Guide:

ASAP Chemistry: a Quick-Review Study Guide for the AP Exam The Princeton Review, 2018-11-15 Subtitle on cover A guick 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 Study Guide Accepted, 2019-09-19 **AP Chemistry, All Access** Kevin Reel, Derrick C. Wood, Scott A. Best, 2014 All Access for the AP R Chemistry Exam Completely Revised for the 2014 Exam Book Web Mobile Everything you need to prepare for the Advanced Placement R exam in a study system built around you There are many different ways to prepare for an Advanced Placement R exam What's best for you depends on how much time you have to study and how comfortable you are with the subject matter To score your highest you need a system that can be customized to fit you your schedule your learning style and your current level of knowledge This book and the online tools that come with it will help you personalize your AP R Chemistry prep by testing your understanding pinpointing your weaknesses and delivering flashcard study materials unique to you The REA AP R All Access system allows you to create a personalized study plan through three simple steps targeted review of exam content assessment of your knowledge and focused study in the topics where you need the most help Here's how it works Review the Book Study the Big Ideas tested on the APR Chemistry exam and learn proven AP R strategies that will help you tackle any question you may see on test day Test Yourself and Get Feedback As you review the book test yourself with 7 end of chapter guizzes plus two mini tests Score reports from your free online tests and guizzes give you a fast way to pinpoint what you really know and what you should spend more time studying Improve Your Score Armed with your score reports you can personalize your study plan Review the parts of the book where you are weakest and use the REA Study Center to create your own unique AP R Chemistry e flashcards adding to the 100 free cards included with this

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