

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 Lab Guide

S. Raizen, E.D. Britton



Ap Chemistry Lab Guide:

Illustrated Guide to Home Chemistry Experiments Robert Bruce Thompson, 2012-02-17 For students DIY hobbyists and science buffs who can no longer get real chemistry sets this one of a kind guide explains how to set up and use a home chemistry lab with step by step instructions for conducting experiments in basic chemistry not just to make pretty colors and stinky smells but to learn how to do real lab work Purify alcohol by distillation Produce hydrogen and oxygen gas by electrolysis Smelt metallic copper from copper ore you make yourself Analyze the makeup of seawater bone and other common substances Synthesize oil of wintergreen from aspirin and rayon fiber from paper Perform forensics tests for fingerprints blood drugs and poisons and much more From the 1930s through the 1970s chemistry sets were among the most popular Christmas gifts selling in the millions But two decades ago real chemistry sets began to disappear as manufacturers and retailers became concerned about liability em The Illustrated Guide to Home Chemistry Experiments steps up to the plate with lessons on how to equip your home chemistry lab master laboratory skills and work safely in your lab The bulk of this book consists of 17 hands on chapters that include multiple laboratory sessions on the following topics Separating Mixtures Solubility and Solutions Colligative Properties of Solutions Introduction to Chemical Reactions Stoichiometry Reduction Oxidation Redox Reactions Acid Base Chemistry Chemical Kinetics Chemical Equilibrium and Le Chatelier s Principle Gas Chemistry Thermochemistry and Calorimetry Electrochemistry Photochemistry Colloids and Suspensions Qualitative Analysis Quantitative Analysis Synthesis of Useful Compounds Forensic Chemistry With plenty of full color illustrations and photos Illustrated Guide to Home Chemistry Experiments offers introductory level sessions suitable for a middle school or first year high school chemistry laboratory course and more advanced sessions suitable for students who intend to take the College Board Advanced Placement AP Chemistry exam A student who completes all of the laboratories in this book will have done the equivalent of two full years of high school chemistry lab work or a first year college general chemistry laboratory course This hands on introduction to real chemistry using real equipment real chemicals and real quantitative experiments is ideal for the many thousands of young people and adults who want to experience the magic of chemistry

NSTA Guide to Planning School Science Facilities LaMoine L. Motz, James T. Biehle, Sandra S. West, 2007 NSTA Guide to Planning School Science Facilities will help science teachers district coordinators school administrators boards of education and schoolhouse architects understand differences and develop science facilities that will serve students for years to come

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The Organic Chem Lab Survival Manual James W. Zubrick, 1997-02-05 This book describes the instruments and techniques that are used in an organic lab It contains vital directions for obtaining information

on organic chemistry labs from the Internet The Sourcebook for Teaching Science, Grades 6-12 Norman Herr, 2008-08-11

The Sourcebook for Teaching Science is a unique comprehensive resource designed to give middle and high school science teachers a wealth of information that will enhance any science curriculum Filled with innovative tools dynamic activities and practical lesson plans that are grounded in theory research and national standards the book offers both new and experienced science teachers powerful strategies and original ideas that will enhance the teaching of physics chemistry biology and the earth and space sciences *Departments of Veterans Affairs and Housing and Urban Development and Independent Agencies Appropriations for Fiscal Year 1993: American Battle Monuments Commission* United States. Congress. Senate. Committee on Appropriations. Subcommittee on VA-HUD-Independent Agencies, 1992 **Bold Ventures** S. Raizen, E.D. Britton, 2012-12-06 This book presents comprehensive results from case studies of five innovations in science education that have much to offer toward understanding current reforms in this field Each chapter tells the story of a case in rich detail with extensive documentation and in the voices of many of the participants the innovators the teachers the students Similarly Volume 3 of Bold Ventures pre sents the results from case studies of five innovations in mathematics education Volume 1 provides a cross case analysis of all eight innovations Many U S readers certainly will be very familiar with the name of at least one if not all of the science innovations discussed in this volume for example Project 2061 and probably with their general substance Much of the education community s familiarity with these arises from the projects own dissemination efforts The research reported in this volume however is one of the few detailed studies of these innovations undertaken by researchers outside the projects them selves Each of the five studies was a large scale effort involving teams of researchers over three years These teams analyzed many documents attended numerous critical project meetings visited multiple sites conducted dozens of individual interviews The team leaders Atkin Huberman Rowe having spent much time with science education over long careers looked at these innovations through many lenses It was a daunting task for each team to sift through the mountains of detail in order to bring the most compelling themes to the surface **Resources in Education** , 1996 Cumulated Index Medicus , 1989 *The Complete Guide to OSHA Compliance* Joel M. Cohen, Robert D. Peterson, 1995-12-13 The Complete Guide to OSHA Compliance is an easy to understand one stop resource designed to help safety professionals industrial hygienists and human resources personnel ensure compliance with existing and upcoming OSHA regulations This essential book explains employer and employee rights and responsibilities and it provides everything you need to know about employer standards and standards for specific operations The Complete Guide to OSHA Compliance describes the process of injury illness recordkeeping and the reporting system required by OSHA It also explains how to conduct a self audit to determine whether a company is in full compliance Furthermore it informs companies of their rights in an inspection and explains how to handle citations and appeals should they arise

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