Unit 6: Molecules & Compounds

Key Terms

lonic Bonding
Electron dot diagramion
anion
cation
chemical bond
ionic bond
chemical formula
crystals

Covalent Bonding Covalent bond molecule polar covalent bond Naming Compounds & Writing Formulas Polyatomic ion

Essential Questions

Electron Configurations: electron dot diagram – a model of an atom in which each dot represents a valence electron.

н	ELEMENTS 1-20						He
Li	Be	·B·	-¢-	·N-	-Ģ-	·F·	-Ne
Na	Mg	ÀI-	-Si-	·P	·Š	·Ġ-	Ār
K.	Ča.						

What is a chemical bond?

A chemical bond is the force that holds atoms and ions together as a unit.

How is an ionic bond different from a covalent bond?

Ionic Bonds: some elements achieve stable electron configurations through the transfer of electrons between atoms.

Formation of ions — when an atom gains or losses an electron, the number of protons in no longer equal to the number of electrons. The charge is no longer neutral.

ion - an atom with a net positive or negative charge. Represented by a + or - sign.

Cl gains an electron 17 protons 18 electrons charge of 1- Cl or Cl

anion - (an eye un) an ion with a negative charge

Naming: using part of the element name plus the suffix -ide.

CI: Chloride ion.

Na loses an electron 11 protons 10 electrons charge of 1+ Na¹⁺ or Na⁺ cation – (kat eye un) an ion with a positive charge

Naming: just use the elements name.

Unit 6 Study Guide Covalent Bonding

Kenneth L. Henold

Unit 6 Study Guide Covalent Bonding:

Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today Seager/Slabaugh, 2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application **Life: The Science of Biology Study Guide** William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR Study Guide to Accompany Basics for Chemistry Martha Mackin, 1982-01-01 Study Guide to Accompany Basics for Chemistry is an 18 chapter text designed to be used with Basics for Chemistry textbook Each chapter contains Overview Topical Outline Skills and Common Mistakes which are all keyed to the textbook for easy cross reference The Overview section summarizes the content of the chapter and includes a comprehensive listing of terms a summary of general concepts and a list of numerical exercises while the Topical Outline provides the subtopic heads that carry the corresponding chapter and section numbers as they appear in the textbook The Fill in Multiple Choice are two sets of questions that include every concept and numerical exercise introduced in the chapter and the Skills section provides developed exercises to apply the new concepts in the chapter to particular examples The Common Mistakes section is designed to help avoid some of the errors that students make in their effort to learn chemistry while the Practical Test section includes matching and multiple choice questions that comprehensively cover almost every concept and numerical problem in the chapter After briefly dealing with an overview of chemistry this book goes on exploring the concept of matter energy measurement problem solving atom periodic table and chemical bonding These topics are followed by discussions on writing names and formulas of compounds chemical formulas and the mole chemical reactions calculations based on equations gases and the properties of a liquid The remaining chapters examine the solutions acids bases salts oxidation reduction reactions electrochemistry chemical kinetics and equilibrium and nuclear organic and biological chemistry This study guide will be of great value to chemistry teachers and students

Student Guide For Living Chemistry Barbara Ucko, 2012-12-02 Student Guide for Living Chemistry is a 23 chapter textbook guide that allows students to study and review on their own and test their understanding to help them prepare for

examinations Every chapter begins with a list of objectives stating exactly the skills to develop in a particular unit Each objective corresponds to a section in the textbook Living Chemistry Three kinds of questions are provided for each objective to check the student's understanding namely short answer Study Questions multiple choice and fill in The answers for all questions are provided at the end of the chapter The opening chapters cover the SI units composition of matter chemical bonding compounds chemical change gases respiration and water The subsequent chapters deal with solutions acids bases salts nuclear and organic chemistry oxygen derivatives and hydrocarbons polymers and other organic derivatives This textbook also explores the chemistry of carbohydrates lipids proteins enzymes and energy and carbohydrate metabolism The remaining chapters discuss the chemistry of vitamins hormones body fluid drugs and poisons Undergraduate chemistry students will find this book invaluable Study Guide for The Anatomy and Physiology Learning System Edith Applegate, 2010-03-30 Designed to accompany The Anatomy and Physiology Learning System 4th Edition by Edith Applegate this study guide helps you learn and review basic A P concepts Each chapter emphasizes medical terminology with a set of key terms word parts clinical terms and abbreviations and then adds a variety of fun filled learning exercises review questions a guiz and a word puzzle The study guide corresponds to the textbook chapter for chapter Chapter learning objectives help you focus on the most important material Key concepts are defined on the first page of each chapter in the workbook Learning exercises for each chapter include short answer matching and diagrams to label and color Self guizzes allow you to measure your progress and understanding Fun and Games features end each chapter with a variety of engaging puzzles covering words and concepts A chapter summary provides a brief review of each chapter A chapter review provides questions for reinforcement and review of the concepts in each chapter **Student Study Guide for Biology [by]** Campbell/Reece Martha R. Taylor, 2002 Marty Taylor Cornell University Provides a concept map of each chapter chapter summaries a variety of interactive questions and chapter tests Student Study Guide for Biology [by] Campbell/Reece/Mitchell Martha R. Taylor, 1999 Basic Concepts of Chemistry, Study Guide Leo J. Malone, 2000 The text's three main goals are to introduce chemistry as a living relevant science to encourage learning and critical thinking and to help readers overcome the math difficulties that impede their progress in chemistry Designed to help readers master the principles of general chemistry As a prep book it promotes active involvement with the material There are special features throughout that reinforce concepts and help to develop strong problem solving and study skills Updated to Include an Interactive Learning Ware problems CD containing several of the chapter ending problems from the book in an interactive tutorial with feedback to help readers set up and solve problems Study Guide for Chemistry by Steven S. Zumdahl **Inclusion Strategies That Work for Adolescent Learners!** Toby J. Karten, 2009-03-17 Wow Martha B. Barrett, 1986 What a wonderful resource for all teachers This book combines theory and practical strategies that can easily be implemented in anyone's classroom Kudos to the author Sarah N Miller Special Education Teacher Baldwin County Schools

Summerdale AL This book will quickly become the must have resource for all special and general educators Karten addresses all aspects of the inclusive environment beginning with the inclusive mind set and working through environment structure content and most important the idiosyncratic adolescent Harold M Tarriff Director of Special Services School District of the Chathams NJ Strategies to achieve winning results in the inclusive secondary classroom Higher performance and more positive experiences are possible for all adolescent learners with some guidance perseverance and the right techniques Toby J Karten provides teachers with a practical approach for creating a successful inclusive secondary classroom Backed by more than three decades of experience and expertise this accessible guidebook helps teachers focus on teaching and learning for results using a wide variety of strategies including differentiated instruction universal design for learning brain based learning RTI and evidence based practice Other areas of focus include classroom management and helping adolescents transition to life after high school With helpful forms activities graphic organizers and quotations throughout this teacher friendly resource Outlines the theoretical background for creating an inclusive classroom environment at the middle and high school level Describes the psychosocial cognitive physical and moral development of adolescents and how they affect teaching practice Provides research based practices to maximize and honor learners potentials and strengths Inclusion Strategies That Work for Adolescent Learners is the perfect companion for educators striving to help their adolescent Study Guide to Accompany Chemical Principles, Properties, students achieve success in the classroom and beyond and Reactions Kenneth L. Henold, 1984 Study Guide for Mortimer's Chemistry, Sixth Edition Donald W. The Sciences, Study Guide James Trefil, Anthony J. Gaudin, Robert M. Hazen, 2000-11-24 Shive, Louise E. Shive, 1986 The Sciences An Integrated Approach 3e is the only text on the market for the integrated science course It integrates physics chemistry astronomy earth sciences and biology for students with little or no science background The new third edition builds on the successful previous edition by incorporating changes that meet reform curriculum guidelines Given the dynamic nature of the science disciplines covered in Trefil's text updated content is critical The new third edition has thoroughly updated content throughout bringing the most up to date discoveries to the students in all five disciplines its broad approach that covers such a variety of the science disciplines updated content is crucial This revision has several significant changes URL s are included at the ends of each chapter many of the Science News boxes are updated to show hot General Chemistry Study Guide Sixth Edition Darrell D. Ebbing,1999 Study Guide to Accompany Introduction topics to Chemistry J.C. Cummins, Jack D. Cummins, 1975 Science Indiana Standards Manager Grade 6 Mcdougal Littel,2004 **Study Guide for Chemical Principles** Thomas Elliott Taylor, 1979 Cell and Molecular Biology, **Problems Book and Study Guide** Gerald Karp, 2001-09-25 Balances coverage of the concepts of cell and molecular biology using examples of experimentation to support those concepts As experimental techniques become more diverse and complex it is increasingly necessary to identify individual studies that have a broad impact on our understanding of cell biology This

text describes in detail some of the key experimental findings along with the original data and figures

Inquiry Into Life,

Study Guide Sylvia S. Mader,1982

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