

IONIC & COVALENT BONDS

Name:

Date:

Period:

An _____ is the attraction between two oppositely charged ions. The chemical bond formed when two atoms share electrons is called a _____. Covalent bonds usually form between atoms of _____ and ionic bonds usually form when a _____ combines with a _____.

Activity A: How Do Ions Form?

Procedure:

1. Place three pairs of checkers (three red and three black) on your desk. The red represent electrons and the black represent protons.
2. Place nine pairs of checkers (nine red and nine black) in a separate group on your desk.
3. Move a red checker from the smaller group to the larger group.
4. Count the number of positive charges (protons) and negative charges (electrons) in each group.
5. Now sort the checkers into a group of four pairs and a group of eight pairs. Repeat Steps 3 and 4, this time moving two red checkers from the smaller group to the larger group.

Think it over:

1. What was the total charge on each group before you moved the red checkers (electrons)?
2. What was the charge on each group after you moved the checkers?
3. Based on this activity what do you think happens to the charge on an atom when it loses electrons?
4. Based on this activity what do you think happens to the charge on an atom when it gains electrons?

Activity B: Interpreting Data About Ions

Procedure:

1. Use the periodic table and the chart to the right to identify the charges of the ions in each ionic compound listed below.
2. Write the formulas for each compound.
 - a. sodium bromide;
 - b. lithium oxide;
 - c. magnesium sulfide;
 - d. aluminum fluoride;
 - e. potassium nitrate;
 - f. ammonium chloride

Ions and Their Charges		
Name	Charge	Symbol or Formula
Lithium	1+	Li^+
Sodium	1+	Na^+
Potassium	1+	K^+
Ammonium	1+	NH_4^+
Calcium	2+	Ca^{2+}
Magnesium	2+	Mg^{2+}
Aluminum	3+	Al^{3+}
Fluoride	1-	F^-
Chloride	1-	Cl^-
Iodide	1-	I^-
Bicarbonate	1-	HCO_3^-
Nitrate	1-	NO_3^-
Oxide	2-	O^{2-}
Sulfide	2-	S^{2-}
Carbonate	2-	CO_3^{2-}
Sulfate	2-	SO_4^{2-}
Phosphate	3-	PO_4^{3-}

Think it over:

1. How do you know how many of each ion to write in the formula?

Answers Covalent Bonding Vocabulary

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Building Academic Language Jeff Zwiers, 2013-02-20 Many students ranging from native English speakers to recent immigrants need help in understanding and using the language of school Language is the lifeblood of learning in all content areas and it plays a major role in academic achievement Building Academic Language explains the functions and features of academic language that every teacher language arts history math science teachers etc should know for supporting academic reading writing and discussion The book includes research based instructional and assessment activities that content teachers can use to build students abilities to understand and describe the many abstract concepts higher order thinking skills and complex relationships in a discipline The book emphasizes an approach that builds from students existing ways of learning and communicating scaffolding them to think and talk as content area experts think and talk about math science history and language arts Major topics and themes include What is academic language and how does it differ by content area How can language building activities discussions small groups etc support content understanding How can we build language abilities for content reading and writing and vice versa How can we build on students diverse ways of understanding learning and communicating about the world How can we more effectively model and

scaffold academic language in our teaching and assessment

E3 Chemistry Guided Study Book - 2018 Home Edition (Answer Key Included) Effiong Eyo, 2017-12-08 Chemistry students and Homeschoolers Go beyond just passing Enhance your understanding of chemistry and get higher marks on homework quizzes tests and the regents exam with E3 Chemistry Guided Study Book 2018 With E3 Chemistry Guided Study Book students will get clean clear engaging exciting and easy to understand high school chemistry concepts with emphasis on New York State Regents Chemistry the Physical Setting Easy to read format to help students easily remember key and must know chemistry materials Several example problems with guided step by step solutions to study and follow Practice multiple choice and short answer questions along side each concept to immediately test student understanding of the concept 12 topics of Regents question sets and 2 most recent Regents exams to practice and prep for any Regents Exam This is the Home Edition of the book Also available in School Edition ISBN 978 1979088374 The Home Edition contains answer key to all questions in the book Teachers who want to recommend our Guided Study Book to their students should recommend the Home Edition Students and and parents whose school is not using the Guided Study Book as instructional material as well as homeschoolers should also buy the Home edition The School Edition does not have the answer key in the book A separate answer key booklet is provided to teachers with a class order of the book Whether you are using the school or Home Edition our E3 Chemistry Guided Study Book makes a great supplemental instructional and test prep resource that can be used from the beginning to the end of the school year PLEASE NOTE Although reading contents in both the school and home editions are identical there are slight differences in question numbers choices and pages between the two editions Students whose school is using the Guided Study Book as instructional material SHOULD NOT buy the Home Edition Also available in paperback print

Carbon Chemistry Christine Caputo, 2010 A look at the element carbon and its many forms

Organic Chemistry (Transition from High School to College) Dipak K. Mandal, 2024-01-25 Organic Chemistry Transition from High School to College is a comprehensive textbook on foundational organic chemistry which aims to provide a seamless link between the higher secondary and the undergraduate level The book has been organized logically to provide an excellent coverage on the structure reactions and synthesis of organic compounds Advanced high school students and beginning undergraduates will find this book invaluable for their academic progression and also for competitive entrance examinations Also students in pharmaceuticals polymer science and medicinal chemistry will find this book very useful Key Features Clear explanations of basic principles of organic chemistry Logical approaches from structure to reactions to synthesis of organic molecules Inclusion of spectroscopy and retrosynthesis as advanced topics Introduction to polymers and biomolecules as special topics Inclusion of in chapter problems with detailed answers and end of chapter supplementary problems for practice

Heath Earth Science Nancy E. Spaulding, 1999 [Introduction to Chemical Structure](#) Donald Cotter, 2020-08-01 *Teaching Students With High-Incidence Disabilities* Mary Anne Prater, 2016-12-29 To ensure that all students receive quality instruction Teaching

Students with High Incidence Disabilities prepares preservice teachers to teach students with learning disabilities emotional behavioral disorders intellectual disabilities attention deficit hyperactivity and high functioning autism Focusing on research based instructional strategies Mary Anne Prater gives explicit instructions and strategies for teaching students with special needs and includes examples throughout in the form of scripted lesson plans Real world classrooms are brought into focus through teacher tips embedded case studies and technology spotlights to enhance student learning The book also emphasizes diversity with a section in each chapter devoted to exploring how instructional strategies can be modified to accommodate diverse exceptional students

Teaching the Content Areas to English Language Learners in Secondary Schools

Luciana C. de Oliveira, Kathryn M. Obenchain, Rachael H. Kenney, Alandeom W. Oliveira, 2019-01-17 This practitioner based book provides different approaches for reaching an increasing population in today s schools English language learners ELLs The recent development and adoption of the Common Core State Standards for English Language Arts and Literacy in History Social Studies Science and Technical Subjects CCSS ELA Literacy the Common Core State Standards for Mathematics the C3 Framework and the Next Generation Science Standards NGSS highlight the role that teachers have in developing discipline specific competencies This requires new and innovative approaches for teaching the content areas to all students The book begins with an introduction that contextualizes the chapters in which the editors highlight transdisciplinary theories and approaches that cut across content areas In addition the editors include a table that provides a matrix of how strategies and theories map across the chapters The four sections of the book represent the following content areas English language arts mathematics science and social studies This book offers practical guidance that is grounded in relevant theory and research and offers teachers suggestions on how to use the approaches described

Crystal Engineering: The Design and Application of Functional Solids Kenneth Richard Seddon, Kenneth R.

Seddon, Michael Zaworotko, 1999-09-30 Crystal engineers need an understanding of bonding theory computational chemistry applied spectroscopy structural methods synthesis strategies and applications of custom designed solids This book contains chapters on all these topics written by internationally recognized experts plus contributions from leading researchers in the field

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Table of Contents Answers Covalent Bonding Vocabulary

1. Understanding the eBook Answers Covalent Bonding Vocabulary
 - The Rise of Digital Reading Answers Covalent Bonding Vocabulary
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers Covalent Bonding Vocabulary
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers Covalent Bonding Vocabulary
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers Covalent Bonding Vocabulary
 - Personalized Recommendations
 - Answers Covalent Bonding Vocabulary User Reviews and Ratings

- Answers Covalent Bonding Vocabulary and Bestseller Lists
- 5. Accessing Answers Covalent Bonding Vocabulary Free and Paid eBooks
 - Answers Covalent Bonding Vocabulary Public Domain eBooks
 - Answers Covalent Bonding Vocabulary eBook Subscription Services
 - Answers Covalent Bonding Vocabulary Budget-Friendly Options
- 6. Navigating Answers Covalent Bonding Vocabulary eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers Covalent Bonding Vocabulary Compatibility with Devices
 - Answers Covalent Bonding Vocabulary Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers Covalent Bonding Vocabulary
 - Highlighting and Note-Taking Answers Covalent Bonding Vocabulary
 - Interactive Elements Answers Covalent Bonding Vocabulary
- 8. Staying Engaged with Answers Covalent Bonding Vocabulary
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers Covalent Bonding Vocabulary
- 9. Balancing eBooks and Physical Books Answers Covalent Bonding Vocabulary
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers Covalent Bonding Vocabulary
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers Covalent Bonding Vocabulary
 - Setting Reading Goals Answers Covalent Bonding Vocabulary
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers Covalent Bonding Vocabulary
 - Fact-Checking eBook Content of Answers Covalent Bonding Vocabulary
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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acids but it was found that the reaction was more complex and the main product is monomethylol and di methylol amino acids amino acids exist in zwitter ionic form and cannot be titrated directly with alkali

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