

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

**Michael A. Dispezio, Marylin
Lisowski, Gerald Duane Skoog, Marylin
Linner-Luebe, Bobbie Sparks**

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Science Vocabulary Building, Grades 5 - 8 Schyrlet Cameron, Carolyn Craig, 2009-02-16 Connect students in grades 5 8 with science using Science Vocabulary Building This 80 page book reinforces commonly used science words builds science vocabulary and increases students readability levels This comprehensive classroom supplement includes alphabetized word lists that provide pronunciations syllabifications definitions and context sentences for high utility science words Activities allow for differentiated instruction and can be used as warm ups homework assignments and extra practice The book supports National Science Education Standards **Master Vocabulary Workbook** David Nicholls, 2023-06-11

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Teaching Science to English Learners Stephen Fleenor, Tina Beene, 2019 Teaching Science to English Learners is a go to resource for science educators to promote listening speaking reading and writing in their classrooms Each chapter outlines specific easy to implement strategies that foster academic language development and comprehension of science concepts with specific scaffolds highlighted for each language proficiency level Teaching Science to English Learners is thoughtfully designed to help teachers equip students to navigate inquiry driven instruction understand abstract science concepts and master the multitude of science vocabulary that can be challenging for ELs and non ELs alike By equipping teachers with strategies to draw from students prior knowledge and focus on collaboration this book helps science teachers make lessons accessible for all learners while deepening content comprehension and developing academic language Teaching Science to English Learners is the second in a set of books designed to help content area teachers create learning environments in which English learners thrive *E3 Chemistry Review Book - 2018 Home Edition (Answer Key Included)*

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CLASS 10 SCIENCE NARAYAN CHANGDER, 2023-04-13 Note Anyone can request the PDF version of this practice set

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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

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