Name:	Ashley Maddison	Date:	11/28/2020	

Student Exploration: Ionic Bonds

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: chemical family, electron affinity, ion, ionic bond, metal, nonmetal, octet rule, shell, valence electron

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

 Nate and Clara are drawing pictures with markers. There are 8 markers in a set. Nate has 9 markers and Clara has 7. What can Nate and Clara do so that each of them has a full set?

Nate can give Clara 1 marker, so they each have a full set.

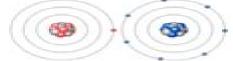
Maggie is sitting at a table with Fred and Florence. Maggie has 10 markers, but Fred and Florence each have only 7 markers. How can they share markers so each has 8?

Maggie has to give away 2 markers to Fred and Florence so each has 8.

Gizmo Warm-up

Just like students sharing markers, atoms sometimes share or swap electrons. By doing this, atoms form bonds. The lonic Bonds Gizmo allows you to explore how ionic bonds form.

To begin, check that Sodium (Na) and Chlorine (CI) are selected from the menus at right. Click Play (🕒) to see electrons orbiting the nucleus of each atom. (Note: These atom models are simplified and not meant to be realistic.)



 Each atom consists of a central nucleus and several shells that contain electrons. The outermost electrons are called valence electrons. (Inner electrons are not shown.)

Chlorine How many valence electrons does each atom have? Sodium

- 2. Click Pause (...). Elements can be classified as metals and nonmetals. Metals do not hold on to their valence electrons very tightly, while nonmetals hold their electrons tightly. Electron affinity is a measure of how tightly the valence electrons are held.
 - A. Try pulling an electron away from each atom. Based on this experiment, which atom is a metal? Sodium Which is a nonmetal? Chlorine
 - B. Try moving an electron from the metal to the nonmetal. What happens?

Student Exploration Ionic Bonds Answ

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Strategies for Teaching Science, Levels 6-12 Barbara Houtz, 2011-06-01 Developed for grades 6 12 this rich resource provides teachers with practical strategies to enhance science instruction Strategies and model lessons are provided in each of the following overarching topics inquiry and exploration critical thinking and questioning real world applications integrating the content areas and technology and assessment Research based information and management techniques are also provided to support teachers as they implement the strategies within this resource. This resource supports core concepts The Mind at Hand Michael J. Strauss, 2013-01-01 The Mind at Hand explores how artists scientists of STEM instruction writers and others students and professionals alike see their world record it revise it and come to know it It is about the rough drawn sketch diagram chart or other graphic representation and the focus these provide for creative work that follows from them Such work could involve solving a problem composing a musical score proposing a hypothesis creating a painting and many other imaginative and inventive tasks The book is for for visual learners of all kinds for scientists as well as artists and for anyone who keeps a journal notebook or lab book in order to think and create visually It is also a book for teachers and educational administrators interested in learning about new active learning strategies involving drawing and possible outcomes of these in classrooms The formulas and symbols of chemistry the diagrams and features of the landscape in geology and the organisms and structures in biology are all represented as images on pages or screens Students create them when studying problem solving and learning Once in front of their eyes they can be reconsidered revised and reconstructed into new images for further consideration and revision It is how artists often create a painting or a sculpture and how scientists come up with new hypotheses This is how learning occurs not only across disciplines but in all kinds of creative endeavors through a continuing process of creation revision and re creation It is drawing to learn Prentice Hall Chemistry ,2000 High School Chemistry Unlocked The Princeton Review, 2016-11-29 UNLOCK THE SECRETS OF CHEMISTRY with THE PRINCETON REVIEW High School Chemistry Unlocked focuses on giving you a wide range of key lessons to help increase your understanding of chemistry With this book you ll move from foundational concepts to complicated real world applications building confidence as your skills improve End of chapter drills will help test your comprehension of each facet of chemistry from atoms to alpha radiation Don t feel locked out Everything You Need to Know About Chemistry Complex concepts explained in straightforward ways Walk throughs of sample problems for all topics Clear goals and self assessments to help you pinpoint areas for further review Guided examples of how to solve problems for common subjects Practice Your Way to Excellence 165 hands on practice questions seeded throughout the chapters and online Complete answer explanations to boost understanding Bonus online questions similar to those you ll find on the AP Chemistry Exam and the SAT Chemistry Subject Test High School Chemistry Unlocked covers Building blocks of matter Physical behavior of matter Chemical bonding Chemical reactions Stoichiometry Solutions Acids and bases Equilibrium

Ceramic Materials C. Barry Carter, M. Grant Norton, 2013-01-04 Ceramic Organic chemistry Radioactivity and more Materials Science and Engineering is an up to date treatment of ceramic science engineering and applications in a single comprehensive text Building on a foundation of crystal structures phase equilibria defects and the mechanical properties of ceramic materials students are shown how these materials are processed for a wide diversity of applications in today s society Concepts such as how and why ions move how ceramics interact with light and magnetic fields and how they respond to temperature changes are discussed in the context of their applications References to the art and history of ceramics are included throughout the text and a chapter is devoted to ceramics as gemstones This course tested text now includes expanded chapters on the role of ceramics in industry and their impact on the environment as well as a chapter devoted to applications of ceramic materials in clean energy technologies Also new are expanded sets of text specific homework problems and other resources for instructors The revised and updated Second Edition is further enhanced with color illustrations throughout the text Introduction to Modern Inorganic Chemistry Kenneth Malcolm Mackay, Rosemary Ann Mackay, 1989 *The Software Encyclopedia 2000* Bowker Editorial Staff,2000-05 Foundations in Microbiology' 2007 Ed.(sixth Edition)2007 Edition, Jacaranda Nature of Biology 2 VCE Units 3 and 4, LearnON and Print Judith Kinnear, Marjory Martin, Lucy Cassar, Elise Meehan, Ritu Tyagi, 2021-10-29 Jacaranda Nature of Biology Victoria s most trusted VCE Biology online and print resource The Jacaranda Nature of Biology series has been rewritten for the VCE Biology Study Design 2022 2026 and offers a complete and balanced learning experience that prepares students for success in their assessments by building deep understanding in both Key Knowledge and Key Science Skills Prepare students for all forms of assessment Preparing students for both the SACs and exam with access to 1000s of past VCAA exam questions now in print and learnON new teacher only and practice SACs for every Area of Study and much more Videos by experienced teachers Students can hear another voice and perspective with 100s of new videos where expert VCE Biology teachers unpack concepts VCAA exam questions and sample problems For students of all ability levels All students can understand deeply and succeed in VCE with content mapped to Key Knowledge and Key Science Skills careful scaffolding and contemporary case studies that provide a real word context eLogbook and eWorkBook Free resources to support learning eWorkbook and the increased requirement for practical investigations eLogbook which includes over 80 practical investigations with teacher advice and risk assessments For teachers learnON includes additional teacher resources such as guarantined questions and answers curriculum grids and work programs **Book of Abstracts** American Chemical Society. Meeting, American Chemical Society, 1985 The Education Index ,1986 Bulletin of the Atomic Scientists, 1972-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world Children's Books in Print R R Bowker Publishing, Bowker, 1999-12

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