

Name: Sam Li

Simulation: Ionic and Covalent Bonding

Background

In this investigation you will bond select atoms. Based upon the types of atoms that you choose to combine, you will create either an ionic compound or a covalent compound. You will have the opportunity to analyze the differences between these different types of compounds and to predict the number of atoms needed to create each, as well as learn how to appropriately name them.

1. Describe the difference between an atom and a molecule:

Atoms are single particles, and molecules are made up of multiple atoms

2. Where are metal atoms located on the periodic table? Where are non-metal atoms located on the periodic table?

Metals are on the left side and non-metals are on the right

3. What subatomic particle(s) participate in chemical bonding?

electron

4. In your own words, define valence electron.

electrons on outside ring which allow for bonding, negative charge

5. How can you determine the number of valence electrons in an atom using the periodic table?

Look at the atomic #

6. Draw a Lewis Dot Structure for the following atoms:

a. Strontium (Sr)



b. Carbon (C)



c. Iodine (I)



d. Xenon (Xe)

*Check your answers before moving on to the next portion of the activity.

Ionic Bonding Lab Answers

Erin C. Amerman



Ionic Bonding Lab Answers:

Exercises for the Anatomy & Physiology Laboratory Erin C. Amerman, 2019-02-01 This concise inexpensive black and white manual is appropriate for one or two semester anatomy and physiology laboratory courses It offers a flexible alternative to the larger more expensive laboratory manuals on the market This streamlined manual shares the same innovative activities based approach as its more comprehensive full color counterpart *Exploring Anatomy Physiology in the Laboratory 3e Addison Wesley Chemistry 5th Edition Probreware Lab Manual 2002c* Antony C. Wilbraham, Dennis D. Staley, Michael S. Matta, Edward L. Waterman, Prentice-Hall Staff, 2001-02 To purchase or download a workbook click on the Purchase or Download button to the left To purchase a workbook enter the desired quantity and click Add to Cart To download a free workbook right click the FREE Download PDF link and save to your computer This will result in a faster download as opposed to left clicking and opening the link [Exploring Anatomy & Physiology in the Laboratory](#) Erin C. Amerman, 2017-02-01 Over two previous editions *Exploring Anatomy Physiology in the Laboratory EAPL* has become one of the best selling A P lab manuals on the market Its unique straightforward practical activity based approach to the study of anatomy and physiology in the laboratory has proven to be an effective approach for students nationwide This comprehensive beautifully illustrated and affordably priced manual is appropriate for a two semester anatomy and physiology laboratory course Through focused activities and by eliminating redundant exposition and artwork found in most primary textbooks this manual complements the lecture material and serves as an efficient and effective tool for learning in the lab *Exploring General Chemistry in the Laboratory* Colleen F. Craig, Kim N. Gunnerson, 2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science [A Laboratory Centered Molecular Biology Teaching Module which Facilitates the Teaching of Biological Science](#) Michael James Brundage, 1990 **English in Analytical Chemistry. Communicating about Methods & Techniques. Книга для студента** Надежда Зорина, Александра Соболева, 2022-10-19 **CSIR NET Earth, Atmospheric, Ocean Sciences Question Bank** Mocktime Publication, This comprehensive question bank for the CSIR NET in Earth Atmospheric Ocean and Planetary Sciences covers the full syllabus of Part B C of the single paper test General Science Research Aptitude in Part A According to the official pattern of the CSIR HRDG the paper is divided into three parts Part A with 20 questions answer any 15 Part B with 50 MCQs answer any 35 and Part C with 80 questions of analytical application nature answer any 25 for a total of 200 marks csirhrdg res in The question bank includes PDF formats

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The Zinc and Iodine Book Stephen DeMeo, 2019-05-15 This book is for chemistry teachers who are thinking about reinventing their laboratory experiments that they provide to their students More than a collection of experiments it is an example of using a chemical theme to teach chemistry Instead of introducing many different chemicals per experiment as is the norm in most lab manuals this novel resource focuses on two commonly found elements Zinc and Iodine So what is so special about these elements At the heart of this resource is a colorful cyclic reaction between zinc and iodine one that produces a compound that can decompose back to its original elements This unique phenomenon demonstrates that matter not only changes but is also conserved through a chemical reaction Knowing that a compound can be the same but different than the reactants that formed it is to understand the essence of chemical change Complementing this reaction this book contains experimental activities that utilize the zinc and iodine theme to scaffold new concepts such as the properties of matter solid and gas stoichiometry equilibrium kinetics acid base chemistry and electrochemistry This teacher tested resource focuses on a set of safe substances that are appropriate for high school teachers who provide an advanced chemistry placement course and for college instructors teaching a first year chemistry laboratory sequence

Environmental Health Perspectives, 2000 **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science**, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction

Chemistry Eugene LeMay, Jr., Herbert Beall, Karen M. Robblee, Douglas C. Brower, Prentice-Hall Staff, 2002-02

Critical Care Transport American Academy of Orthopaedic Surgeons, American College of Emergency Physicians, 2009-11-13 Welcome to the new gold standard in critical care transport training Published in conjunction with the American Academy of Orthopaedic Surgeons AAOS and the American College of Emergency Physicians ACEP Critical Care Transport offers cutting edge content relevant to any healthcare provider training in critical care transport Like no other textbook in this market Critical Care Transport thoroughly prepares medical professionals to function as competent members of a critical care team by covering the material that everyone paramedics nurses physicians and specialty crew needs to know to operate effectively in the prehospital critical care environment This book meets the curricula of major critical care

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