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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.)

1. 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?

If Nate were to give Clara one of his markers, then both would end up with eight.

2. 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?

If Maggie gives Fred and Florence one marker each, they will all have eight markers.

Gizmo Warm-up

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

To begin, check that **Sodium (Na)** and **Chlorine (Cl)** 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.)



1. Each atom consists of a central nucleus and several **shells** that contain **electrons**. The outermost electrons are called **valence electrons**.

How many valence electrons does each atom have? Sodium: 1 Chlorine:

7

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?

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The Origins of Evolutionary Innovations Andreas Wagner, 2011-07-14 The history of life is a nearly four billion year old story of transformative change This change ranges from dramatic macroscopic innovations such as the evolution of wings or eyes to a myriad of molecular changes that form the basis of macroscopic innovations We are familiar with many examples of innovations qualitatively new phenotypes that provide a critical benefit but have no systematic understanding of the principles that allow organisms to innovate This book proposes several such principles as the basis of a theory of innovation integrating recent knowledge about complex molecular phenotypes with more traditional Darwinian thinking Central to the book are genotype networks vast sets of connected genotypes that exist in metabolism and regulatory circuitry as well as in protein and RNA molecules The theory can successfully unify innovations that occur at different levels of organization It captures known features of biological innovation including the fact that many innovations occur multiple times independently and that they combine existing parts of a system to new purposes It also argues that environmental change is important to create biological systems that are both complex and robust and shows how such robustness can facilitate innovation Beyond that the theory can reconcile neutralism and selectionism as well as explain the role of phenotypic plasticity gene duplication recombination and cryptic variation in innovation Finally its principles can be applied to technological innovation and thus open to human engineering endeavours the powerful principles that have allowed life's spectacular success

Introduction to Modern Inorganic Chemistry Kenneth Malcolm Mackay, Rosemary Ann Mackay, 1989 *Journal of the American Medical Association*, 1926 Includes proceedings of the association papers read at the annual sessions and lists of current medical literature

Neither Physics nor Chemistry Kostas Gavroglu, Ana Simoes, 2011-10-07 The evolution of a discipline at the intersection of physics chemistry and mathematics Quantum chemistry a discipline that is not quite physics not quite chemistry and not quite applied mathematics emerged as a field of study in the 1920s It was referred to by such terms as mathematical chemistry subatomic theoretical chemistry molecular quantum mechanics and chemical physics until the community agreed on the designation of quantum chemistry In *Neither Physics Nor Chemistry* Kostas Gavroglu and Ana Simoes examine the evolution of quantum chemistry into an autonomous discipline tracing its development from the publication of early papers in the 1920s to the dramatic changes brought about by the use of computers in the 1970s The authors focus on the culture that emerged from the creative synthesis of the various traditions of chemistry physics and mathematics They examine the concepts practices languages and institutions of this new culture as well as the people who established it from such pioneers as Walter Heitler and Fritz London Linus Pauling and Robert Sanderson Mulliken to later figures including Charles Alfred Coulson Raymond Daudel and Per Olov Löwdin Throughout the authors emphasize six themes epistemic aspects and the dilemmas caused by multiple approaches social issues including academic politics the impact of textbooks and the forging of alliances the contingencies that arose at every stage of the developments in quantum chemistry

the changes in the field when computers were available to perform the extraordinarily cumbersome calculations required issues in the philosophy of science and different styles of reasoning **Resources in Education** ,1993-04 *TV Guide* ,1963 **Congressional Record** United States. Congress,1979 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 **Selected Water Resources Abstracts** ,1972-10 **The Athenaeum** ,1846 Bulletin California. Division of Mines and Geology,California. Division of Mines,1955 **Harper's Weekly** John Bonner,George William Curtis,Henry Mills Alden,Samuel Stillman Conant,Montgomery Schuyler,John Foord,Richard Harding Davis,Carl Schurz,Henry Loomis Nelson,John Kendrick Bangs,George Brinton McClellan Harvey,Norman Hapgood,1874 To-day ,1897 **Prentice Hall Chemistry** ,2000 **Iowa Documents** ,1973 **Scientific and Technical Aerospace Reports** ,1992 The Software Encyclopedia 2001 ,2001 **American Railroad Journal** ,1854 **Clays and Clay Minerals** Clay Minerals Society,1952 **Bulletin** California. Division of Mines,1955 **Clays and Clay Technology** ,1952

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