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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.)

 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.

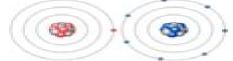
Maggie is sitting at a table with Fred and Florence. Maggie has 10 markers, but Fred and Florence each have only 7 markers. How can they share markers so each has 8?

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?

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Table of Contents Ionic Bonds Gixmo Answers

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

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

- 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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