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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.

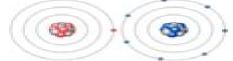
Maggie is sitting at a table with Fred and Florence. Maggie has 10 markers, but Fred and Florence each have only 7 markers. How can they share markers so each has 8?

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?

Student Exploration Ionic Bonds Gizmo Answers

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Table of Contents Student Exploration Ionic Bonds Gizmo Answers

- 1. Understanding the eBook Student Exploration Ionic Bonds Gizmo Answers
 - The Rise of Digital Reading Student Exploration Ionic Bonds Gizmo Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Student Exploration Ionic Bonds Gizmo Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Student Exploration Ionic Bonds Gizmo Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Student Exploration Ionic Bonds Gizmo Answers
 - Personalized Recommendations
 - Student Exploration Ionic Bonds Gizmo Answers User Reviews and Ratings
 - Student Exploration Ionic Bonds Gizmo Answers and Bestseller Lists
- 5. Accessing Student Exploration Ionic Bonds Gizmo Answers Free and Paid eBooks

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