Name: Date:

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?

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

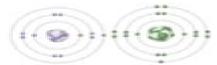
Maggie is sitting at a table with Fred and Florence. Maggie has 10 markers, but Fred and Florence each have only 7 markers. How can they share markers so each has 8?

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 *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.

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

7

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?

Ionic Bonds Gizmo Student Exploration Guide Answers

Lei Shi

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Table of Contents Ionic Bonds Gizmo Student Exploration Guide Answers

- 1. Understanding the eBook Ionic Bonds Gizmo Student Exploration Guide Answers
 - The Rise of Digital Reading Ionic Bonds Gizmo Student Exploration Guide Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Ionic Bonds Gizmo Student Exploration Guide Answers
 - $\circ \ Exploring \ Different \ Genres$
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ionic Bonds Gizmo Student Exploration Guide Answers
 - User-Friendly Interface

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

- 12. Sourcing Reliable Information of Ionic Bonds Gizmo Student Exploration Guide Answers
 - Fact-Checking eBook Content of Ionic Bonds Gizmo Student Exploration Guide 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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