

Name: Date: 3/3/2020

Student Exploration: Ionic Bonds

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?

Answer: Nate can give Clara one marker so they can both have 8 markers.

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?

Answer: Maggie can give one to both Fred and Florence.

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**. (Inner electrons are not shown.)

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?

Answers Key To Gizmo Ionic Bond

M Carnoy

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Answers Key To Gizmo Ionic Bond:

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Table of Contents Answers Key To Gizmo Ionic Bond

1. Understanding the eBook Answers Key To Gizmo Ionic Bond
 - The Rise of Digital Reading Answers Key To Gizmo Ionic Bond
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers Key To Gizmo Ionic Bond
 - 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 Answers Key To Gizmo Ionic Bond
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers Key To Gizmo Ionic Bond
 - Personalized Recommendations
 - Answers Key To Gizmo Ionic Bond User Reviews and Ratings
 - Answers Key To Gizmo Ionic Bond and Bestseller Lists
5. Accessing Answers Key To Gizmo Ionic Bond Free and Paid eBooks

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