

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?

Ionic Bond Gizmo Answer Sheet

Sabine Zange

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.

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Table of Contents Ionic Bond Gizmo Answer Sheet

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

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