

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?

# Explore Learning Ionic Bonds Gizmo Answer Key

**A Loxley**



**Explore Learning Ionic Bonds Gizmo Answer Key:**

## **Explore Learning Ionic Bonds Gizmo Answer Key** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Explore Learning Ionic Bonds Gizmo Answer Key**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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### **Table of Contents Explore Learning Ionic Bonds Gizmo Answer Key**

1. Understanding the eBook Explore Learning Ionic Bonds Gizmo Answer Key
  - The Rise of Digital Reading Explore Learning Ionic Bonds Gizmo Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Ionic Bonds Gizmo Answer Key
  - 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 Explore Learning Ionic Bonds Gizmo Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Ionic Bonds Gizmo Answer Key
  - Personalized Recommendations
  - Explore Learning Ionic Bonds Gizmo Answer Key User Reviews and Ratings
  - Explore Learning Ionic Bonds Gizmo Answer Key and Bestseller Lists

5. Accessing Explore Learning Ionic Bonds Gizmo Answer Key Free and Paid eBooks
  - Explore Learning Ionic Bonds Gizmo Answer Key Public Domain eBooks
  - Explore Learning Ionic Bonds Gizmo Answer Key eBook Subscription Services
  - Explore Learning Ionic Bonds Gizmo Answer Key Budget-Friendly Options
6. Navigating Explore Learning Ionic Bonds Gizmo Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Explore Learning Ionic Bonds Gizmo Answer Key Compatibility with Devices
  - Explore Learning Ionic Bonds Gizmo Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Explore Learning Ionic Bonds Gizmo Answer Key
  - Highlighting and Note-Taking Explore Learning Ionic Bonds Gizmo Answer Key
  - Interactive Elements Explore Learning Ionic Bonds Gizmo Answer Key
8. Staying Engaged with Explore Learning Ionic Bonds Gizmo Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Explore Learning Ionic Bonds Gizmo Answer Key
9. Balancing eBooks and Physical Books Explore Learning Ionic Bonds Gizmo Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Explore Learning Ionic Bonds Gizmo Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Explore Learning Ionic Bonds Gizmo Answer Key
  - Setting Reading Goals Explore Learning Ionic Bonds Gizmo Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Explore Learning Ionic Bonds Gizmo Answer Key
  - Fact-Checking eBook Content of Explore Learning Ionic Bonds Gizmo Answer Key
  - 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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14 7 3 14  $\Delta h_{rxn} q_{rxn} c_{calorimeter} m c_s \Delta t$

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