

Name: _____

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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?

_____ Nate can share a marker with Clara, so they each a full set 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?

_____ Maggie can give Fred and Florence each 1 marker, which would leave everybody with 9 markers. _____

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.

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N Noddings



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Table of Contents Exploration Guide Ionic Bonds Answer Key

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

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