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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.)

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 give Clara 1 marker, so they each have a full set.

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 has to give away 2 markers to Fred and Florence so each has 8.

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?

Sodium

Which is a nonmetal?

Chlorine

- B. Try moving an electron from the metal to the nonmetal. What happens?

Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet

KJ Lindholm-Leary



Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet:

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Table of Contents Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet

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

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