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Date: 12-25-2022

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 would need to give Clara one marker because a set of eight markers has eight markers.

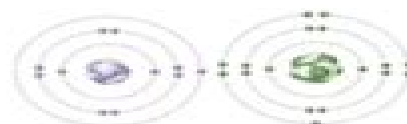
2. Maggie is sitting at a table with Fred and Florence. Maggie has 10 markers, but Fred and Florence each have only 7 markers. How can they share markers so each has 8?

Maggie can give up two markers, one of which can go to each 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**.

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?

One electron from sodium is released.

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Christian G. Meyer



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1. Understanding the eBook Explore Learning Ionic Bonds Answer Key
 - The Rise of Digital Reading Explore Learning Ionic Bonds Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning 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 Explore Learning Ionic Bonds Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Ionic Bonds Answer Key
 - Personalized Recommendations
 - Explore Learning Ionic Bonds Answer Key User Reviews and Ratings
 - Explore Learning Ionic Bonds Answer Key and Bestseller Lists
5. Accessing Explore Learning Ionic Bonds Answer Key Free and Paid eBooks
 - Explore Learning Ionic Bonds Answer Key Public Domain eBooks
 - Explore Learning Ionic Bonds Answer Key eBook Subscription Services
 - Explore Learning Ionic Bonds Answer Key Budget-Friendly Options
6. Navigating Explore Learning Ionic Bonds Answer Key eBook Formats

- ePub, PDF, MOBI, and More
- Explore Learning Ionic Bonds Answer Key Compatibility with Devices
- Explore Learning Ionic Bonds Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Explore Learning Ionic Bonds Answer Key
 - Highlighting and Note-Taking Explore Learning Ionic Bonds Answer Key
 - Interactive Elements Explore Learning Ionic Bonds Answer Key
- 8. Staying Engaged with Explore Learning Ionic Bonds Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Explore Learning Ionic Bonds Answer Key
- 9. Balancing eBooks and Physical Books Explore Learning Ionic Bonds Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Explore Learning Ionic Bonds 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 Answer Key
 - Setting Reading Goals Explore Learning Ionic Bonds Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Explore Learning Ionic Bonds Answer Key
 - Fact-Checking eBook Content of Explore Learning 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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