



Name:		Date:	
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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?

If Nate were to give Clara one of his markers, then both would end up with eight.

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?

If Maggie gives Fred and Florence one marker each, they will all have eight 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**.

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 Covalent Bonds Gizmo Answers

Kathleen Armour

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.

Explore Learning Covalent Bonds Gizmo Answers:

This book delves into Explore Learning Covalent Bonds Gizmo Answers. Explore Learning Covalent Bonds Gizmo Answers is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Explore Learning Covalent Bonds Gizmo Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Explore Learning Covalent Bonds Gizmo Answers
- Chapter 2: Essential Elements of Explore Learning Covalent Bonds Gizmo Answers
- Chapter 3: Explore Learning Covalent Bonds Gizmo Answers in Everyday Life
- Chapter 4: Explore Learning Covalent Bonds Gizmo Answers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Explore Learning Covalent Bonds Gizmo Answers. This chapter will explore what Explore Learning Covalent Bonds Gizmo Answers is, why Explore Learning Covalent Bonds Gizmo Answers is vital, and how to effectively learn about Explore Learning Covalent Bonds Gizmo Answers.
3. In chapter 2, the author will delve into the foundational concepts of Explore Learning Covalent Bonds Gizmo Answers. This chapter will elucidate the essential principles that need to be understood to grasp Explore Learning Covalent Bonds Gizmo Answers in its entirety.
4. In chapter 3, this book will examine the practical applications of Explore Learning Covalent Bonds Gizmo Answers in daily life. The third chapter will showcase real-world examples of how Explore Learning Covalent Bonds Gizmo Answers can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Explore Learning Covalent Bonds Gizmo Answers in specific contexts. The fourth chapter will explore how Explore Learning Covalent Bonds Gizmo Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Explore Learning Covalent Bonds Gizmo Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Explore Learning Covalent Bonds Gizmo Answers.

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