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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

Ian Pickup



Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet:

The book delves into Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet. Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet
 - Chapter 2: Essential Elements of Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet
 - Chapter 3: Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet in Everyday Life
 - Chapter 4: Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet. This chapter will explore what Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet is, why Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet is vital, and how to effectively learn about Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet.
 3. In chapter 2, the author will delve into the foundational concepts of Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet. The second chapter will elucidate the essential principles that need to be understood to grasp Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet in its entirety.
 4. In chapter 3, the author will examine the practical applications of Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet in daily life. This chapter will showcase real-world examples of how Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet in specific contexts. The fourth chapter will explore how Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet.

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