



Name: Ashley Maddison

Date: 11/28/2020

## 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?

# Ionic Bonding Gizmo Answer Key

**Jiyuan Zhang**

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.

## **Ionic Bonding Gizmo Answer Key:**

The book delves into Ionic Bonding Gizmo Answer Key. Ionic Bonding Gizmo Answer Key is an essential 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 Ionic Bonding Gizmo Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Ionic Bonding Gizmo Answer Key
    - Chapter 2: Essential Elements of Ionic Bonding Gizmo Answer Key
    - Chapter 3: Ionic Bonding Gizmo Answer Key in Everyday Life
    - Chapter 4: Ionic Bonding Gizmo Answer Key in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Ionic Bonding Gizmo Answer Key. The first chapter will explore what Ionic Bonding Gizmo Answer Key is, why Ionic Bonding Gizmo Answer Key is vital, and how to effectively learn about Ionic Bonding Gizmo Answer Key.
  3. In chapter 2, the author will delve into the foundational concepts of Ionic Bonding Gizmo Answer Key. This chapter will elucidate the essential principles that must be understood to grasp Ionic Bonding Gizmo Answer Key in its entirety.
  4. In chapter 3, this book will examine the practical applications of Ionic Bonding Gizmo Answer Key in daily life. This chapter will showcase real-world examples of how Ionic Bonding Gizmo Answer Key can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Ionic Bonding Gizmo Answer Key in specific contexts. The fourth chapter will explore how Ionic Bonding Gizmo Answer Key is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Ionic Bonding Gizmo Answer Key. 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 Ionic Bonding Gizmo Answer Key.

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