



Name:

Date:

## 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 a marker.

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 Fred and Florence each a marker.

### 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?

The nonmetal takes in the electron

# Ionic Bonds Worksheet Gizmo

**B Lingard**

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 Bonds Worksheet Gizmo:**

## The Enigmatic Realm of **Ionic Bonds Worksheet Gizmo**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Ionic Bonds Worksheet Gizmo** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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### Table of Contents **Ionic Bonds Worksheet Gizmo**

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

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