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.)

 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.

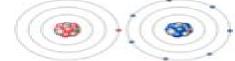
Maggie is sitting at a table with Fred and Florence. Maggie has 10 markers, but Fred and Florence each have only 7 markers. How can they share markers so each has 8?

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 *lonic Bonds* Gizmo allows you to explore how **lonic bonds** form.

To begin, check that **Sodium (Na)** and **Chlorine (CI)** are selected from the menus at right. Click **Play** ( b) to see electrons orbiting the nucleus of each atom. (Note: These atom models are simplified and not meant to be realistic.)



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:

n: 1 Chlorine: 7

- 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 Bonds Gizmo Worksheet Answers**

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

- 1. Understanding the eBook Ionic Bonds Gizmo Worksheet Answers
  - The Rise of Digital Reading Ionic Bonds Gizmo Worksheet Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Ionic Bonds Gizmo Worksheet Answers
  - Exploring Different Genres
  - $\circ\,$  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 Gizmo Worksheet Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Ionic Bonds Gizmo Worksheet Answers

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

- Fact-Checking eBook Content of Ionic Bonds Gizmo Worksheet Answers
- 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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