



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:  Chlorine:

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 Gizmo Activity A Ions Key

**Marcel A. Müller**

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 Gizmo Activity A Ions Key:**

## Whispering the Secrets of Language: An Emotional Quest through **Ionic Bonds Gizmo Activity A Ions Key**

In a digitally-driven earth wherever screens reign supreme and immediate communication drowns out the subtleties of language, the profound secrets and emotional nuances concealed within words usually go unheard. However, nestled within the pages of **Ionic Bonds Gizmo Activity A Ions Key** a captivating fictional prize pulsing with fresh feelings, lies an exceptional journey waiting to be undertaken. Published by a skilled wordsmith, that wonderful opus attracts viewers on an introspective trip, gently unraveling the veiled truths and profound influence resonating within the very cloth of each and every word. Within the emotional depths of this poignant evaluation, we shall embark upon a honest exploration of the book is primary themes, dissect its charming publishing type, and yield to the effective resonance it evokes heavy within the recesses of readers hearts.

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