

Name: Date: 3/3/2020

Student Exploration: Ionic Bonds

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?

Answer: Nate can give Clara one marker so they can both have 8 markers.

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?

Answer: Maggie can give one to both Fred and Florence.

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?

Answers Key To Gizmo Ionic Bond

JS Bruner

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.

Answers Key To Gizmo Ionic Bond:

Enjoying the Song of Expression: An Mental Symphony within **Answers Key To Gizmo Ionic Bond**

In a world consumed by monitors and the ceaseless chatter of quick communication, the melodic splendor and mental symphony created by the prepared term usually diminish in to the background, eclipsed by the constant sound and distractions that permeate our lives. But, nestled within the pages of **Answers Key To Gizmo Ionic Bond** a marvelous literary prize filled with raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, that fascinating masterpiece conducts readers on a mental trip, skillfully unraveling the concealed tunes and profound affect resonating within each cautiously constructed phrase. Within the depths of this moving analysis, we can examine the book is key harmonies, analyze their enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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