

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

RJ Shavelson

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

Answers Key To Gizmo Ionic Bond:

Whispering the Techniques of Language: An Mental Quest through **Answers Key To Gizmo Ionic Bond**

In a digitally-driven earth where screens reign supreme and instant connection drowns out the subtleties of language, the profound techniques and mental subtleties hidden within phrases usually get unheard. Yet, situated within the pages of **Answers Key To Gizmo Ionic Bond** a interesting fictional value pulsing with fresh emotions, lies an extraordinary quest waiting to be undertaken. Penned by an experienced wordsmith, that enchanting opus attracts visitors on an introspective trip, softly unraveling the veiled truths and profound influence resonating within ab muscles fabric of each word. Within the emotional depths with this touching evaluation, we will embark upon a heartfelt exploration of the book is primary styles, dissect its interesting writing model, and fail to the strong resonance it evokes strong within the recesses of readers hearts.

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