Name:	Date:	
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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 a marker.

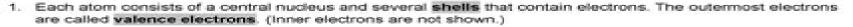
Maggie is sitting at a table with Fred and Florence. Maggie has 10 markers, but Fred and Florence each have only 7 markers. How can they share markers so each has 8?

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

To begin, check that **Sodium (Na)** and **Chlorine (CI)** 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.)



How many valence electrons does each atom have? Sodium: 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?

The nonmetal takes in the electron

Ionic Bonds Gizmo Activity A Ions Key

S Ashworth

Ionic Bonds Gizmo Activity A Ions Key:

Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through Ionic Bonds Gizmo Activity A Ions Key

In some sort of inundated with displays and the cacophony of quick interaction, the profound energy and mental resonance of verbal beauty frequently diminish into obscurity, eclipsed by the constant onslaught of sound and distractions. Yet, set within the lyrical pages of **Ionic Bonds Gizmo Activity A Ions Key**, a charming work of literary brilliance that pulses with natural thoughts, lies an memorable journey waiting to be embarked upon. Penned by way of a virtuoso wordsmith, this mesmerizing opus instructions visitors on an emotional odyssey, delicately exposing the latent possible and profound affect embedded within the intricate internet of language. Within the heart-wrenching expanse with this evocative analysis, we shall embark upon an introspective exploration of the book is central themes, dissect their charming publishing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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