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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.)

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 1 marker, so they each have a full set.

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 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 *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?

Sodium

Which is a nonmetal?

Chlorine

- B. Try moving an electron from the metal to the nonmetal. What happens?

Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet

J Dewey



Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet:

Whispering the Techniques of Language: An Emotional Journey through **Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet**

In a digitally-driven earth where monitors reign supreme and immediate communication drowns out the subtleties of language, the profound secrets and mental nuances hidden within phrases usually get unheard. Yet, located within the pages of **Answer Key To Student Exploration Ionic Bonds Gizmo Worksheet** a captivating fictional value sporting with raw feelings, lies an exceptional quest waiting to be undertaken. Published by a talented wordsmith, that enchanting opus encourages viewers on an introspective journey, delicately unraveling the veiled truths and profound affect resonating within the very material of every word. Within the mental depths of the emotional review, we shall embark upon a honest exploration of the book is key styles, dissect its captivating writing style, and yield to the effective resonance it evokes heavy within the recesses of readers hearts.

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