

Student Exploration: Ionic Bonds

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 one marker each

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?

The chlorine atom took the electron and added it to its outermost shell

Explore Learning Student Exploration Ionic Bonds Key

Peipei Pang



Explore Learning Student Exploration Ionic Bonds Key:

Embracing the Song of Appearance: An Emotional Symphony within **Explore Learning Student Exploration Ionic Bonds Key**

In some sort of used by monitors and the ceaseless chatter of immediate connection, the melodic beauty and emotional symphony developed by the written word often disappear in to the back ground, eclipsed by the constant sound and disturbances that permeate our lives. However, set within the pages of **Explore Learning Student Exploration Ionic Bonds Key** a stunning literary prize filled with natural thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, that charming masterpiece conducts readers on a psychological journey, well unraveling the concealed melodies and profound influence resonating within each cautiously crafted phrase. Within the depths of this touching analysis, we shall explore the book is key harmonies, analyze its enthralling writing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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