

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 Unit Ionic Bonds Answers

Lei Huang



Explore Learning Student Exploration Unit Ionic Bonds Answers:

Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Explore Learning Student Exploration Unit Ionic Bonds Answers**

In a world inundated with screens and the cacophony of quick communication, the profound power and mental resonance of verbal artistry often fade into obscurity, eclipsed by the regular barrage of sound and distractions. Yet, nestled within the lyrical pages of **Explore Learning Student Exploration Unit Ionic Bonds Answers**, a captivating function of literary brilliance that impulses with organic emotions, lies an memorable trip waiting to be embarked upon. Written by a virtuoso wordsmith, that interesting opus manuals visitors on a psychological odyssey, softly revealing the latent possible and profound impact embedded within the elaborate web of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is key subjects, dissect its interesting publishing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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