Name: \_\_\_\_\_ Date: \_\_\_\_

# Student Exploration: Ionic Bonds

Vocabulary: chemical family, electron affinity, ion, ionic bond, metal, nonmetal, octet rule, shell, valence electron

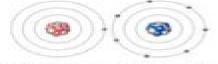
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

- 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?
- 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?

#### 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 **lonic 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.)



 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: \_\_\_\_\_ Chlorine: \_\_\_\_\_

- 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? \_\_\_\_\_ Which is a nonmetal? \_\_\_\_\_

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

# **Ionic Bonds Worksheet Gizmo**

# **AN Whitehead**

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