Name: Date: 3/3/2020

# 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?

Answer: Nate can give Clara one marker so they can both have 8 markers.

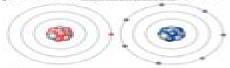
Maggie is sitting at a table with Fred and Florence. Maggie has 10 markers, but Fred and Florence each have only 7 markers. How can they share markers so each has 8?

Answer: Maggie can give one to both Fred and Florence.

#### 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 ( L) 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: 1 Chlorine: 7

- - A. Try pulling an electron away from each atom. Based on this experiment, which atom

is a metal?

# **Ionic Bond Gizmo Worksheet**

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Ionic Bonds | Characteristics of Ionic Bonds and Properties of Ionic Compounds | Grade 6-8 Physical Science Dot EDU,2024-04-15 Dive into the electrifying world of Ionic Bonds Characteristics and Properties for grades 6 8 This insightful book unravels the mysteries of ionic bonds and compounds explaining their formation characteristics and role in the matter s structure Discover the intricacies of atoms the exchange of electrons and the fascinating properties of ionic compounds through engaging examples and explanations Perfect for educators and students this resource illuminates a foundational concept in physical science Add it to your science curriculum to spark curiosity and understanding in young learners

Teaching Chemical Bonding Margaret Irene Lindsay,1995 This document presents an instructional strategy for teaching chemical bonding using parables and music Games student interactions and worksheets are included in the lesson plans Topics include metallic bonding covalent bonding including molecular and network structure and ionic bonding JRH

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