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.

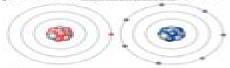
Maggie is sitting at a table with Fred and Florence. Maggie has 10 markers, but Fred and Florence each have only 7 markers. How can they share markers so each has 8?

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 () 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 Answer Sheet

Katrin Zwirglmaier

Ionic Bond Gizmo Answer Sheet:

Ionic Bond Gizmo Answer Sheet Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Ionic Bond Gizmo Answer Sheet**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

https://www.splashdogs.com/results/Resources/fetch.php/Guided_Reading_And_Study_Workbook_Chapter_12_Stoichiometry_Answers.pdf

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