| Name: | Ashley Maddison | Date: | 11/28/2020 |  |
|-------|-----------------|-------|------------|--|
|       |                 |       |            |  |

#### Student Exploration: Ionic Bonds

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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?

Nate can give Clara 1 marker, so they each have a full set.

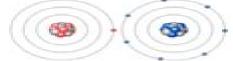
Maggie is sitting at a table with Fred and Florence. Maggie has 10 markers, but Fred and Florence each have only 7 markers. How can they share markers so each has 8?

Maggie has to give away 2 markers to Fred and Florence 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 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.)

Chlorine How many valence electrons does each atom have? Sodium

- 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?

# **Ionic Bonds Gizmo Worksheet Answers**

**E Staff** 

#### **Ionic Bonds Gizmo Worksheet Answers:**

<u>Ionic Bonds | Characteristics of Ionic Bonds and Properties of Ionic Compounds | Grade 6-8 Physical Science</u> 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

**Ionic Bonds and Compounds Explained (General Chemistry Review)** E Staff, Learn and review on the go Use Quick Review Science Study Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Perfect study notes for all high school and college students

Ionic Bonds and Compounds Roberts, 1997-02-01

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## kittens are like that

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kniga rabtreliannykh martirolog pogibshikh ot ruki vchkogpunkvd v gody krasnogo terrora tiumenskaia oblast kolorektalnyi rak podgotovka tolstoi kishki k operatsii

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