

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.)

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?

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?

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: _____ Chlorine: _____

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? _____ Which is a nonmetal? _____
- B. Try moving an electron from the metal to the nonmetal. What happens? _____

Answer Key For Ionic Bonds Gizmo

Primrose Kitten



Answer Key For Ionic Bonds Gizmo:

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

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Answers are provided for the sections where you need to work out the answers for yourself not the sections where you are just filling things in from a video or website

Atoms Electrons Structure and Bonding Workbook Topics Covered are

Some of this content has also been published in the Summer Start to A Level Chemistry and a practice exam paper

Atomic Structure 20 Multiple choice questions

Properties of Ionic Compounds 15 multiple choice questions

Reference table of common ions formulae

Formula of Ionic Compounds 65 formulas to work out

Drawing Ionic Bonding 10 Compounds

Simple Covalent Bonding 20 multiple choice questions

Drawing Covalent Bonding 10 Compounds

Summary Table for the 4 Different Types of Bonding

Electron configurations

Drawing electron configurations

Drawing Electron Configurations Spot the mistake

Electronic Configuration 20 multiple choice questions

Exceptions to the Octet Rule

Oxidation Numbers 20 multiple choice questions

Balancing Equations using the oxidation numbers method 20 to practice

Salt Equations 20 equations to complete and balance

Shapes of Molecules Investigation

Shapes of Molecules and Bond Angles 20 multiple choice questions

Electronegativity and Bond Polarity Investigation

Intermolecular Bonding 10 multiple choice questions

Electrons Structure and Bonding Practice Exam Questions Answers

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