

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?

_____ Nate can share a marker with Clara, so they each a full set 8 markers _____

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?

_____ Maggie can give Fred and Florence each 1 marker, which would leave everybody with 9 markers. _____

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: 1 Chlorine: 7

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.

Exploration Guide Ionic Bonds Answer Key

Xiang Xie



Exploration Guide Ionic Bonds Answer Key:

Scientific and Technical Aerospace Reports ,1992 **Key-words-in-context Title Index** ,1962 Harper's Weekly John Bonner,George William Curtis,Henry Mills Alden,Samuel Stillman Conant,Montgomery Schuyler,John Foord,Richard Harding Davis,Carl Schurz,Henry Loomis Nelson,John Kendrick Bangs,George Brinton McClellan Harvey,Norman Hapgood,1874 *Saturday Review of Literature* ,1926 **Index to Well Logging Literature, 1965-1984** ,1985 *Bulletin of the Atomic Scientists* ,1971-09 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **Government Reports Announcements & Index** ,1994-06 **Los Angeles Magazine** ,2003-11 Los Angeles magazine is a regional magazine of national stature Our combination of award winning feature writing investigative reporting service journalism and design covers the people lifestyle culture entertainment fashion art and architecture and news that define Southern California Started in the spring of 1961 Los Angeles magazine has been addressing the needs and interests of our region for 48 years The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian **Energy Research Abstracts** ,1995 **Government Reports Annual Index** ,1991 U.S. News & World Report ,1969 A S T I S Current Awareness Bulletin Arctic Science and Technology Information System,1988 Solid Wastes Management/Refuse Removal Journal ,1982 **Bibliography of Agriculture** ,1977 **Dissertation Abstracts International** ,2002 Books Out-of-print ,1986 **Annual Index/abstracts of SAE Technical Papers** ,2002 **Books in Print Supplement** ,1979 **Science Citation Index** ,1992 Vols for 1964 have guides and journal lists *World Who's who in Finance and Industry* ,1969

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