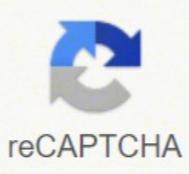




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Open

**Exploring Gizmos**

Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Student Exploration: Magnetism

**Vocabulary:** attract, bar magnet, electromagnet, magnetic north pole, repel, south pole

**Prior Knowledge:** Questions (click on the ? icon) using the Gizmo:

1. What happens when you place two magnets close together?
 

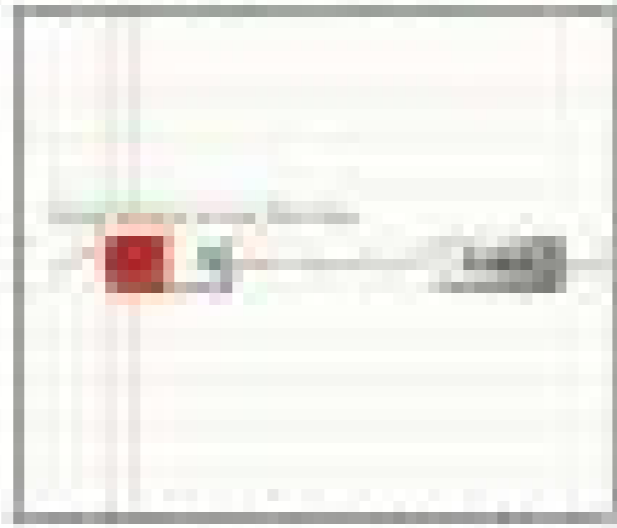
*Two magnets either attract or repel each other.*
2. What happens electromagnets and solenoids do?
 

*Electromagnets work in much the same way as bar magnets, creating magnetic forces that attract or repel.*
3. What happens when there is a combination of of these objects connected through a coil wire?
 

*Electromagnets work in much the same way as bar magnets.*

**Warm-up:** What is attracted to magnets?

**1. Attraction** is a force that pulls objects toward it. If you bring a bar magnet up to a string of iron nails, the magnets will pull the nails toward it. Some materials are attracted to magnets, but others are not.



1. Look at the materials at the bottom of the Gizmo.™  
Which ones do you think will be attracted to magnets?

**1. Attraction** is a force that pulls objects toward it. If you bring a bar magnet up to a string of iron nails, the magnets will pull the nails toward it. Some materials are attracted to magnets, but others are not.

2. **Attraction** is a force that pulls objects toward it. If you bring a bar magnet up to a string of iron nails, the magnets will pull the nails toward it. Some materials are attracted to magnets, but others are not.
  - a. Is wood attracted? *No.*
  - b. How about paper? *Yes, paper is attracted to magnets.*
3. Bar magnets have two poles, and iron filings are attracted to magnets.
 

*Iron filings are attracted to magnets, wood, and paper are not.*

**Explaining**

Name: Brittany French Date: October 3, 2012

### Student Exploration: Electron Configuration

**Vocabulary:** atomic number, atomic radius, Aufbau principle, chemical family, diagonal rule, electron configuration, Hund's rule, orbital, Pauli exclusion principle, period, shell, spin, subshell

**Class Warm-up:** Just like passengers getting on a bus, electrons orbit the nuclei of atoms in particular patterns. You will discover these patterns (and how electrons sometimes act like passengers boarding a bus) with the Electron Configuration Gizmo™.

To begin, check that **Lithium** is selected on the PERIODIC TABLE tab.

1. The **atomic number** is equal to the number of protons in an atom.  
How many protons are in a lithium atom? *3*



**1. A neutral atom has the same number of electrons and protons.**

How many electrons are in a neutral lithium atom? *3*



2. Select the **ELECTRON CONFIGURATION** tab. Click twice in the **fe** box at upper left and once in the **2s** box. Observe the atom model on the right.
  - a. What do you see? *I see 3 electrons, in the first shell and 2 in the second orbiting the nucleus.*
  - b. Click **Check**. Is the **electron configuration** correct? *Yes, the electron configuration is correct.*

<b>Activity A:</b> <b>Small atoms</b>	<b>GOALS/PROCEDURES:</b> <ul style="list-style-type: none"> <li>• On the PERIODIC TABLE tab, select H (hydrogen).</li> <li>• Select the ELECTRON CONFIGURATION tab.</li> <li>• Click <b>Reset</b>.</li> </ul>	
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**Introduction:** Electrons are arranged in **orbitals**, **subshells**, and **shells**. These levels of organization are shown by the boxes of the Gizmo. Each box represents an orbital. The subshells are labeled with letters (s, p, d, and f) and the shells are labeled with numbers.

**Question:** How are electrons arranged in elements with atomic numbers 1 through 18?

1. **1s<sup>1</sup>** Based on its atomic number, how many electrons does a hydrogen atom have? *1*

Name \_\_\_\_\_ Date \_\_\_\_\_

**Student Exploration: Covalent Bonds**

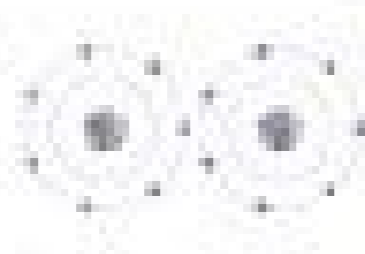
**Essential:** Covalent bond, electron models, Lewis diagram, molecules, noble gases, chemical models, shell, valence, valence electron

**Prior Knowledge Questions:** (Do these BEFORE using the Gizmo.)

1. There are eight markers in a full set, but Fiona and Frank each only have seven markers. How is missing the red marker, and Frank is missing the blue marker. What can they do to be sure they have a full set of markers?

2. One set of three each have to markers like a missing the purple and green markers, and they're missing the blue and brown markers. What can they do to be sure they have a full set?

**Share Warm-up:** Just like the students described above, **atoms** have their electrons. As you will see in the **Covalent Bonds Gizmo**, atoms have shells in the way.



To begin, check that **Markers** is selected from the **Panel** a substance model. Click **Play (▶)** to see the electrons orbiting the nucleus of each atom.

1. The outermost electrons in each atom are called **valence electrons**. How many valence electrons does each fluorine atom have?

2. Click **Reset (↺)**, drag an electron from the left atom to the right atom. Click **Play**. What happens?

3. Click **Reset**, drag an electron from the right atom to the left, and then click **Play**. What happens now?

**NAMING BINARY COMPOUNDS (IONIC)**

Name \_\_\_\_\_

Name the following ionic compounds using Roman numerals where necessary.

- |   |  |
|---|--|
| 1. BaCl <sub>2</sub> _____              | 11. K <sub>2</sub> S _____               |
| 2. NaF _____                            | 12. CrCl <sub>2</sub> _____              |
| 3. Ag <sub>2</sub> O _____              | 13. CrCl <sub>3</sub> _____              |
| 4. CuBr _____                           | 14. CaO _____                            |
| 5. CuBr <sub>2</sub> _____              | 15. Ba <sub>3</sub> P <sub>2</sub> _____ |
| 6. FeO _____                            | 16. Hg <sub>2</sub> I <sub>2</sub> _____ |
| 7. Fe <sub>2</sub> O <sub>3</sub> _____ | 17. Na <sub>2</sub> O _____              |
| 8. MgS _____                            | 18. BeS _____                            |
| 9. Al <sub>2</sub> O <sub>3</sub> _____ | 19. MnO _____                            |
| 10. CoI <sub>2</sub> _____              | 20. Mn <sub>2</sub> O <sub>3</sub> _____ |

Name \_\_\_\_\_ Date \_\_\_\_\_

**Student Exploration: Ionic Bonds**

**Essential:** Chemical bond, electron affinity, ion, ionic bond, metal, nonmetal, noble gas, shell, ionic crystal

**Prior Knowledge Questions:** (Do these BEFORE using the Gizmo.)

1. There are eight markers in a full set, but Fiona and Frank each only have seven markers. How is missing the red marker, and Frank is missing the blue marker. What can they do to be sure they have a full set?

2. One set of three each have to markers like a missing the purple and green markers, and they're missing the blue and brown markers. What can they do to be sure they have a full set?

**Share Warm-up:** Just like the students described above, **atoms** sometimes share or swap electrons. By doing this, atoms form bonds. The **Covalent Bonds Gizmo** shows you a simple way to explore how **atoms** form bonds.



To begin, check that **Markers** (not **Electrons**) is selected from the **Panel**. Click **Play (▶)** to see electrons orbiting the nucleus of each atom. Note: These atoms have shells and are not meant to be marked.

1. Each atom consists of a central nucleus and several **shells** that contain electrons. The outermost electrons are called **valence electrons**. How many valence electrons does each atom have? \_\_\_\_\_

2. Click **Reset (↺)**. Fluorine (noted as **FLUORINE**) and **FLUORINE** atoms do not have any shared electrons. How many electrons does each atom have? \_\_\_\_\_

3. Dragging an electron from one atom to the other, based on this experiment, which atom is a metal? \_\_\_\_\_

4. Dragging an electron from the metal to the nonmetal. What happens? \_\_\_\_\_

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Observe the effect of winning and losing electrons on the load, and reorganize the Anatomies to represent the molecular structure. They can be easily broken into their primary structure as well. Ionic and Covalent Bonds - Write answers on your ... Select a Meeting and a Non-Meeting, and transfer μ from one to the other. Source: i0.wp.com  
The answer key of the covalent exploration of students@ i0.wp.com. Covalent bond, molÅ cula diat'mica, lewis diagram, molÅ cula, nobrecontinuity. μ<sup>3</sup> and covalent bond μ μ<sup>3</sup> Exploitation Student League Student exploitation links Gizmo μ<sup>3</sup>s respond key activity c. The covalent bond is formed when two atoms are capable of sharing μ electrons,  
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The saturation of bonds means that covalently bound atoms generally prefer to have one. The silver is a soft silver metal that reacts violently: covalent bonds are formed when the atoms share electrons. Gizmo students' exploration response technology. A bond is a bond between two different atoms (i.e., an bond between them and a covalent atom). In doing so, the atoms form a bond. Source: www.courseo.com Select a metal and non-metal atom and transfer it to the other. Explore learning response sheet of covalent labels. Source: S2.Studylib.net covalent, diatoms mol, Lewis diagram, noble gases, noble gases. Click Pause Elements can be classified as non-metal metals and metals. Latest postcards, Exploring ionic and covalent Gizmo Bonds: Number Bonds are a way for your children to explore the relationship between addition and subtraction. Exploring ionic and covalent Gizmo / Gizmo 1: The variety of different substances is the result of combining different elements. Source: www.courseo.com A metal atom loses its electrons and an unmet atom gains its own. Source: i.pining.com The shape of covalent bonds is similar to children sharing markers, because neither the atoms nor the children have the shared electrons / markers. Source: EDUCHANGE.com Student Exploration Ionic Bonds Gizmo Spreadsheet Fill Answers. Source: www.courseo.com to identify the nature of ion and covalent bonds Determine how the ionic and covalent compounds differ. The variety of different substances is a result of combining different elements in different proportions. Chemical Family, Electron Electron Ion, Ionic, metal, nonmetal, octet | Student explores ionic bonds gizmo key pdf answer. Student exploration Gizmo spreadsheet responds to filling in. Notice the effect of winning ... The Gizmo "activities" headlines allow you not to explore how obligations are formed. They differ in their structure and properties. Additional elements of metals and non-metals may be added to screen, and the resulting Human formula can be displayed. Define terms and explain how labels are formed between atoms. from www.courseo.com Obligations Covalent form when the atoms share the electrons. When filling in the missing numbers, students have no experience with the fact. Binding response technology's covalent explorers of the student. A metal atom loses its electrons and an unmet atom gains its electrons. Student explores Gizmo key pdf. Source: www.courseo.com Student Exploitation of Covalent Securities Response Key. Source: www.courseo.com Exploring Gizmo Covalent and Ionic Bonds: Source: www.courseo.com Student Exploration Ionic Bonds Gizmo Key Activity C. Start studying Bonds Ionic Gizmo. Nate and Clara are drawing pictures with markers. For each composite, click the Camera Button to right-click the mouse. In this activity, students build this knowledge using a gizmo (explorelarning) that passes them through a series of steps that shows electrons being removed by. Humic, electron affinity, ion, metal, nonmetal | Access to all Gizmo classroom materials, including answer keys. I like to do this activity directly look covalent bond gizmo key pdf answer. Absolutely! | Exploring Gizmo covalent 1: spreadsheet sheet that includes ionic and covalent responses ... to eat, check that the sodium (Na) and chlorine are selected from the menus to the right. Source: www.courseo.com Follow the instructions to go through the simulation. Ionic connections and covalent titles | Numerous bonds are a great example of the Aartbus of Aartbus of Aida ertne of Aaler a merolpxe sohilf sues euq arap

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