



Name

Date

## Student Exploration: Covalent Bonds

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

**Vocabulary:** covalent bond, diatomic molecule, Lewis diagram, molecule, noble gases, nonmetal, octet rule, 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. Fiona is missing the red marker, and Frank is missing the blue marker.

What can they do so that each has a full set of markers?

Frank should give the red marker to Fiona, and Fiona should give the blue marker to Frank.

2. Otto and Olivia each have six markers. Otto is missing the purple and green markers, and Olivia is missing the black and brown markers. What can they do so that each has a full set?

Otto should give the black and brown markers to Olivia, and Olivia should give Otto the purple and green markers.

### Gizmo Warm-up

Just like the students described above, **nonmetal** atoms can share electrons. As you will see in the Covalent Bonds Gizmo, atoms form bonds in this way.



To begin, check that **Fluorine** is selected from the **Select a substance** menu. 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 **Pause** (⏸). Drag a valence electron from the left atom to the right atom. Click **Play**.

What happens?

3. Click **Pause**, drag a valence electron from the right atom to the left, and then click **Play**.

# Section 2 nuclear Chemistry Study Guide Key

**Roman Wölfel**



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