

Student Exploration: Covalent Bonds

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 Flora and Frank each only have seven markers. Flora 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 can share his red marker with Flora and Flora can share her blue marker with 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? *Olivia can share her purple and green markers with Otto and Otto can share his black and brown markers with Olivia.*

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? *Each fluorine atom has seven valence electrons.*
2. Click **Pause** (). Drag an electron from the left atom to the right atom. Click **Play**. What happens? *The electrons that was dragged now orbits both atoms.*
3. Click **Pause**, drag an electron from the right atom to the left, and then click **Play**. What happens now? *A pair of electrons now orbit both atoms.*

Student Exploration Covalent Bond Gizmo

Leallyn Burr Clapp

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

Student Exploration Covalent Bond Gizmo:

The Covalent Bond Henry Sinclair Pickering, 1977

Chemistry of the Covalent Bond Leallyn Burr Clapp, 1957

Delve into the emotional tapestry woven by in Experience **Student Exploration Covalent Bond Gizmo** . This ebook, available for download in a PDF format (*), is more than just words on a page; it's a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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