

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 should give the red marker to Flora, and Flora 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 the purple and green markers to Otto.**

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? **7 valence electrons.**
2. Click **Pause** (), Drag an electron from the left atom to the right atom. Click **Play**.
What happens? **They equally share the one atom on the new shell that is formed.**
3. Click **Pause**, drag an electron from the right atom to the left, and then click **Play**.
What happens now? **They continue to spiral around both atoms, but now there are two electrons on the shell.**

Activity A:
Sharing electrons

Get the Gizmo ready:

- Click **Reset**.
- Select **Hydrogen**.



Student Exploration Covalent Bonds Gizmo Answers

Lealyn Burr Clapp



Student Exploration Covalent Bonds Gizmo Answers:

Chemistry of the Covalent Bond Leallyn Burr Clapp, 1957

The Covalent Bond Henry Sinclair Pickering, 1977

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