## 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.)

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.

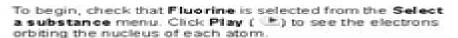
What can they do so that each has a full set of markers? Frank can share his red marker

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 otta and otta 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 Covarent Bond's Gizmo, atoms form bonds in this way.





- 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.
- 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.
- 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.

# **Answer Key To Student Exploration Covalent Bonds**

Marcel A. Müller

**Answer Key To Student Exploration Covalent Bonds:** 

## Answer Key To Student Exploration Covalent Bonds Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "Answer Key To Student Exploration Covalent Bonds," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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