

Name: _____

Date: _____

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? **They can share the markers.**

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?

They can give the ones they need to each other.

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_____
2. Click **Pause** (⏸). Drag an electron from the left atom to the right atom. Click **Play**.
What happens? **They share an electron.**
3. Click **Pause**, drag an electron from the right atom to the left, and then click **Play**.
What happens now? **They share another one.**

Answer Key For Covalent Bonds Gizmo

David Kirk

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

Answer Key For Covalent Bonds Gizmo:

Adopting the Song of Appearance: An Emotional Symphony within **Answer Key For Covalent Bonds Gizmo**

In a world eaten by screens and the ceaseless chatter of fast transmission, the melodic elegance and emotional symphony produced by the prepared word frequently diminish in to the background, eclipsed by the relentless sound and disturbances that permeate our lives. But, set within the pages of **Answer Key For Covalent Bonds Gizmo** an enchanting literary treasure filled with fresh emotions, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, this interesting masterpiece conducts visitors on a mental trip, well unraveling the concealed tunes and profound affect resonating within each cautiously crafted phrase. Within the depths of the touching evaluation, we shall discover the book is central harmonies, analyze its enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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Answer Key For Covalent Bonds Gizmo Introduction

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