

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.**

Gizmo Answers Covalent Bonds

Scott C. Dulebohn

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.

Gizmo Answers Covalent Bonds:

The book delves into Gizmo Answers Covalent Bonds. Gizmo Answers Covalent Bonds is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Gizmo Answers Covalent Bonds, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Gizmo Answers Covalent Bonds
- Chapter 2: Essential Elements of Gizmo Answers Covalent Bonds
- Chapter 3: Gizmo Answers Covalent Bonds in Everyday Life
- Chapter 4: Gizmo Answers Covalent Bonds in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Gizmo Answers Covalent Bonds. This chapter will explore what Gizmo Answers Covalent Bonds is, why Gizmo Answers Covalent Bonds is vital, and how to effectively learn about Gizmo Answers Covalent Bonds.
3. In chapter 2, the author will delve into the foundational concepts of Gizmo Answers Covalent Bonds. This chapter will elucidate the essential principles that need to be understood to grasp Gizmo Answers Covalent Bonds in its entirety.
4. In chapter 3, this book will examine the practical applications of Gizmo Answers Covalent Bonds in daily life. This chapter will showcase real-world examples of how Gizmo Answers Covalent Bonds can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Gizmo Answers Covalent Bonds in specific contexts. This chapter will explore how Gizmo Answers Covalent Bonds is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Gizmo Answers Covalent Bonds. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Gizmo Answers Covalent Bonds.

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web step 7 launch the rocket once the desired amount of gas is put into the rocket carefully put the rocket over top of the ignition apparatus make sure that there is still a small amount of water in the bottom to act as a propellant make sure the way is clear do a count down and spark the rocket

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web jul 8 2012 i am going over two of the pre lab questions and one of the post lab questions i also introduce the ice box which is a useful tool for stoichiometry especially when you need to figure out what is left over at the end of a reaction