



Name

Date

## Student Exploration: Covalent Bonds

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**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 Fiona and Frank each only have seven markers. Fiona 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 Fiona, and Fiona 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 Otto the purple and green markers.

### 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?

2. Click **Pause** (  ). Drag a valence electron from the left atom to the right atom. Click **Play**.

What happens?

3. Click **Pause**, drag a valence electron from the right atom to the left, and then click **Play**.

# Section 2 nuclear Chemistry Study Guide Key

**JG Myers**



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## **Table of Contents Section 2nuclear Chemistry Study Guide Key**

1. Understanding the eBook Section 2nuclear Chemistry Study Guide Key
  - The Rise of Digital Reading Section 2nuclear Chemistry Study Guide Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Section 2nuclear Chemistry Study Guide Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Section 2nuclear Chemistry Study Guide Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Section 2nuclear Chemistry Study Guide Key
  - Personalized Recommendations
  - Section 2nuclear Chemistry Study Guide Key User Reviews and Ratings
  - Section 2nuclear Chemistry Study Guide Key and Bestseller Lists
5. Accessing Section 2nuclear Chemistry Study Guide Key Free and Paid eBooks
  - Section 2nuclear Chemistry Study Guide Key Public Domain eBooks
  - Section 2nuclear Chemistry Study Guide Key eBook Subscription Services
  - Section 2nuclear Chemistry Study Guide Key Budget-Friendly Options

6. Navigating Section 2nuclear Chemistry Study Guide Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Section 2nuclear Chemistry Study Guide Key Compatibility with Devices
  - Section 2nuclear Chemistry Study Guide Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Section 2nuclear Chemistry Study Guide Key
  - Highlighting and Note-Taking Section 2nuclear Chemistry Study Guide Key
  - Interactive Elements Section 2nuclear Chemistry Study Guide Key
8. Staying Engaged with Section 2nuclear Chemistry Study Guide Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Section 2nuclear Chemistry Study Guide Key
9. Balancing eBooks and Physical Books Section 2nuclear Chemistry Study Guide Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Section 2nuclear Chemistry Study Guide Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Section 2nuclear Chemistry Study Guide Key
  - Setting Reading Goals Section 2nuclear Chemistry Study Guide Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Section 2nuclear Chemistry Study Guide Key
  - Fact-Checking eBook Content of Section 2nuclear Chemistry Study Guide Key
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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