



Polarity and Intermolecular Forces

Answer Key

Vocabulary: dipole, dipole-dipole force, dipole-induced dipole force, electronegativity, intermolecular force, ionic bond, London dispersion force, molecule, nonpolar, nonpolar covalent bond, partial charges, polar, polar covalent bond, valence electron

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)



[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

1. A big bully is having a tug-of-war with a small child. There is a ball attached to the middle of the rope.

Toward whom will the ball move? **The big bully.**

2. Two equally strong kids are having a tug-of-war. What do you expect to happen to the ball in this situation? **The ball will stay in the middle, halfway between them.**

Gizmo Warm-up

Just like in a tug-of-war, atoms that are bonded to one another pull on the electrons they share. In the Polarity and Intermolecular Forces Gizmo, you will explore how these opposing forces relate to bond types and the forces between molecules.



To begin, drag the Na (sodium) and Cl (chlorine) atoms into the simulation area. Turn on **Show valence electrons**. A **valence electron** is found in the outermost energy level of the atom.

1. Click **Play** (▶). What do you notice?

The Na atom shrinks and the Cl atom expands. The orange valence electron moves from the Na atom to the Cl atom.

2. Which atom seems to be pulling more on the sodium's one valence electron? **The Cl atom.**

How do you know? **The chlorine atom wins the "tug of war" for the valence electron.**

3. What happens to the colors of the simulated atoms, and what does this indicate?

The Na atom turns blue, indicating a positive charge. The Cl atom turns red, indicating a negative charge.



Polarity And Solutions Answer Key

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Polarity And Solutions Answer Key:

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Table of Contents Polarity And Solutions Answer Key

1. Understanding the eBook Polarity And Solutions Answer Key
 - The Rise of Digital Reading Polarity And Solutions Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Polarity And Solutions Answer 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 Polarity And Solutions Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Polarity And Solutions Answer Key
 - Personalized Recommendations
 - Polarity And Solutions Answer Key User Reviews and Ratings

- Polarity And Solutions Answer Key and Bestseller Lists
- 5. Accessing Polarity And Solutions Answer Key Free and Paid eBooks
 - Polarity And Solutions Answer Key Public Domain eBooks
 - Polarity And Solutions Answer Key eBook Subscription Services
 - Polarity And Solutions Answer Key Budget-Friendly Options
- 6. Navigating Polarity And Solutions Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Polarity And Solutions Answer Key Compatibility with Devices
 - Polarity And Solutions Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Polarity And Solutions Answer Key
 - Highlighting and Note-Taking Polarity And Solutions Answer Key
 - Interactive Elements Polarity And Solutions Answer Key
- 8. Staying Engaged with Polarity And Solutions Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Polarity And Solutions Answer Key
- 9. Balancing eBooks and Physical Books Polarity And Solutions Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Polarity And Solutions Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Polarity And Solutions Answer Key
 - Setting Reading Goals Polarity And Solutions Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Polarity And Solutions Answer Key
 - Fact-Checking eBook Content of Polarity And Solutions Answer 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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