



Name:

Date:

Student Exploration: Coulomb Force (Static)

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

Vocabulary: Coulomb's law, electrostatic force, vector

Prior Knowledge Questions (Do these BEFORE using the Gizmo.). Have you ever taken clothes out of the dryer and found a sock stuck to your underwear? Static cling is an example of **electrostatic forces**, or the forces that exist between charged objects.

1. How do you think the sock and underwear became charged?

Electrons were transferred from certain clothing articles to others throughout the drying process.

2. Suppose two socks acquire the same charge. Do you think they would stick together? Explain:

Because like charges repel, the socks would not cling together.

Gizmo Warm-up

As clothes are tumbled in a dryer, electrons are rubbed off some items, giving them a positive charge, and deposited on other items, giving them a negative charge. These charged items exert electrostatic forces on one another. You can explore these forces with the *Coulomb Force (Static)* Gizmo.



In its initial settings, the Gizmo shows two objects that each have a charge (q) of $10.0 \times 10^{-4} \text{ C}$ (coulombs). Turn on the **Show force vector** checkboxes for objects **A** and **B**. The arrows coming from each object are **vectors** that represent the electrostatic force. The direction and length of each vector show the direction and magnitude (strength) of each force.

1. Are the vectors for objects **A** and **B** pointing together or away from each other?

Away

2. Are objects **A** and **B** attracted together or repelled apart?

Repelled apart

3. Compare the lengths of the vectors. What do you notice?

Gizmo Coulomb Force Answer Key

Zhe Xu



Gizmo Coulomb Force Answer Key:

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Table of Contents Gizmo Coulomb Force Answer Key

1. Understanding the eBook Gizmo Coulomb Force Answer Key
 - The Rise of Digital Reading Gizmo Coulomb Force Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Gizmo Coulomb Force 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 Gizmo Coulomb Force Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gizmo Coulomb Force Answer Key
 - Personalized Recommendations
 - Gizmo Coulomb Force Answer Key User Reviews and Ratings
 - Gizmo Coulomb Force Answer Key and Bestseller Lists
5. Accessing Gizmo Coulomb Force Answer Key Free and Paid eBooks
 - Gizmo Coulomb Force Answer Key Public Domain eBooks
 - Gizmo Coulomb Force Answer Key eBook Subscription Services

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

Gizmo Coulomb Force Answer Key Introduction

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