

Name:

Date:

## Student Exploration: Pith Ball Lab

**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, gravitational force, induced charge, pith ball, Pythagorean Theorem, tension, vector

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



1. A girl rubs a balloon on her head and then holds it a short distance away. Why does her hair stick to the balloon?

Because of static electricity

2. Why do you think the individual strands of hair are spread apart?

The strands probably all have the same charge so they repel one another

### Gizmo Warm-up

The girl's hair was attracted to the balloon by the **electrostatic force**, a force between all charged objects. Most objects acquire a charge ( $q$ ) by gaining or losing electrons. Objects that gain electrons become negatively charged, while objects that lose electrons become positively charged.

The *Pith Ball Lab* Gizmo shows two **pith balls** hanging by strings. Pith balls are made from lightweight material that can easily acquire a charge. To begin, check that the charge on each pith ball ( $q_1$  and  $q_2$ ) is  $0.0 \times 10^{-6}$  coulombs (C).



Use the sliders to test each combination of charges listed below. State whether the electrostatic force is attractive (balls move together), repulsive (balls move apart), or zero (balls don't move).

Charge on left ball ( $q_1$ )	Charge on right ball ( $q_2$ )	Electrostatic force
Positive	Zero	zero
Zero	Negative	zero
Positive	Positive	repulsive
Negative	Negative	repulsive
Positive	Negative	attractive

# Student Exploration Pith Ball Lab Answer Key

**S Marginson**



## **Student Exploration Pith Ball Lab Answer Key:**

Delve into the emotional tapestry woven by Crafted by in Dive into the Emotion of **Student Exploration Pith Ball Lab Answer Key** . This ebook, available for download in a PDF format ( PDF Size: \*), is more than just words on a page; it is a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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## **Table of Contents Student Exploration Pith Ball Lab Answer Key**

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

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