

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

**Thirumalaisamy P.  
Velavancorresponding**



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

## Reviewing **Student Exploration Pith Ball Lab Answer Key**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Student Exploration Pith Ball Lab Answer Key**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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