

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 0.0×10^{-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

Explore Learning Gizmo Pith Ball Answers

Xiang Xie



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