



Name:

Mrs Austin

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?

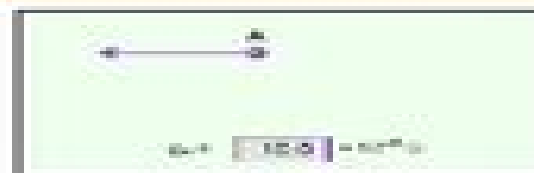
during the drying process electrons got removed from some clothing and got put into others.

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

they would not because like charges repel.

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 $1.0.0 \times 10^{-5}$ 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?

They are the same

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