

Phet Simulation: Static Electricity

Name: _____
Date: _____ Activity: _____

Part 1: Attraction and Repulsion

1. Select "Attraction and Repulsion" and click on "Neutral objects" and "Charged objects".
2. a) Rub the balloon on the wool cloth and demonstrate attraction. Explain the interaction between the objects.
b) Rub the balloon on the wool cloth and demonstrate repulsion. Explain the interaction between the objects.



3. Explain how attraction and repulsion occur. Use the simulation to demonstrate that the objects are attracted or repelled and explain the process. Describe the interaction between the objects including how the forces are affected by distance. What happens if you bring the objects closer together? Explain how the forces between the objects would change.

4. In the simulation, in the "wool cloth" section, there are several red and yellow spheres. The yellow spheres are positive and the red spheres are negative. Explain the interaction between the objects. What happens if you bring the objects closer together? Explain how the forces between the objects would change.

Static Electricity Answer Key

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