

Introduction to Electrostatics: DemonstrationsWarm-Up

1. What is static electricity?
2. How may an object become charged?

Part 1: Sticky Tape

Based on your observations, highlight the word that will complete the 3 claims about the electric charge(s) on the pieces of tape. Support your claim with evidence and reasoning.

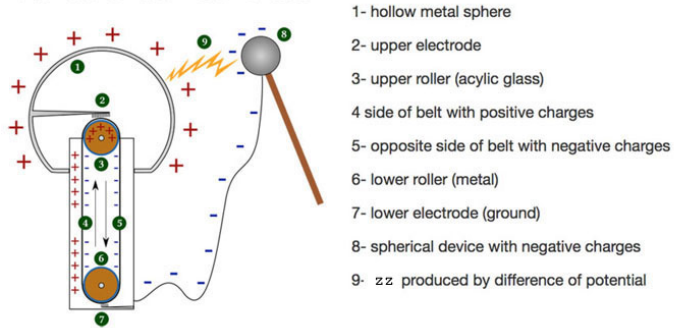
Claim	Evidence & Reasoning
The two pieces of tape have (same, opposite) charges.	
Two pieces of tape with the same charge will (attract, repel) each other.	

Part 2: Balloon and Hole Punch

1. Explain why the charged balloon (charged by friction) attracted the hole punched papers. Draw and label a model showing the attractive force between them.

Part 3: Van de Graaff Generator

Van de Graaff Generator



1. Why/how does the Van de Graaff generator create sparks ('lightning')?

2. For one of the demonstrations shown, draw a model showing all charges and the electric force.

3. Write down three key observations or facts about Ms. Petersen's interaction with the Van de Graaff generator.