

Flask Form Electroscope Worksheet

Charge by Induction

Negatively Charged Friction Rod

Positively Charged Friction Rod

Charge by Conduction

Negatively Charged Friction Rod

Positively Charged Friction Rod

Permanently Charge by Induction

Negatively Charged Friction Rod

Positively Charged Friction Rod

Unknown Charge Polarity

Post-Lab Questions

1. Did the Flask Form Electroscope respond differently to the positive and negative charges?
2. What is the charge on an electroscope that was charged by conduction using a negatively charged friction rod?
3. What is the charge on an electroscope that was permanently charged by induction using a positively charged friction rod?
4. Sketch the process of charging by induction. Include in the drawing the charge on the friction rod, the corresponding charge on the foil leaves, and the directions the electrons flow from the ground.
5. Describe how to determine the polarity of an unknown charge on an object.