

Title: Electroscope Statics

Purpose: To investigate electrostatic charges on an electroscope

Materials: electroscope, black rubber rod, fur, glass rod (or plastic strip), plastic bag (or silk)

Procedure/Observations: (include +,-, and electron flow in all pictures)

1. discharge electroscope
2. charge electroscope and rubber rod
3. discharge by touching with hand (grounding)
4. Bring rubber rod close but do not touch electroscope
5. Repeat #4 with a positive glass rod
6. charge electroscope negatively and bring positive glass rod close
7. bring rubber rod close, partner touch (ground), remove ground, remove rod (4 drawings)

Summary: Discuss the three different ways objects can be charged along with when it occurred in the lab and include an everyday example of each.