

# Lab: Making an Electroscope

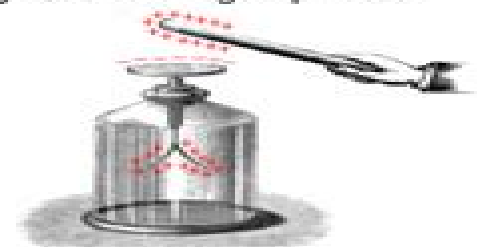
## CHAPTER 32: ELECTROSTATICS

**Introduction:** An **ELECTROSCOPE** is an instrument for detecting differences of electric potential and hence electrification. The earliest form of scientific electroscope was the **versorium** or electrical needle of William Gilbert (1544-1603). It consisted simply of a light metallic needle balanced on a pivot like a compass needle. Gilbert employed it to prove that numerous other bodies besides amber are susceptible of being electrified by friction. In this case the visible indication consisted in the attraction exerted between the electrified body and the light pivoted



needle which was acted upon. The next improvement was the invention of simple forms of repulsion electroscope. Two similarly electrified bodies repel each other. Abraham Bennet invented the modern form of gold-leaf electroscope. Inside a glass shade he fixed to an insulated wire a pair of strips of gold-leaf. The wire terminated in a plate or knob outside the vessel. When an electrified body was held near or in contact with the knob, repulsion of the gold leaves ensued.

In this lab you will be constructing and experimenting with your own electroscope using some simple materials.



### **Materials:**

1. Glass Jar with large mouth (biological specimen jar w/ non-metallic lid)
2. 15 cm rigid copper wire (10 gauge sheathed)
3. wire strippers
4. 3 cm of thin copper wire (solid)
5. aluminum foil (heavy duty)
6. straight pin
7. hot glue gun
8. Glass and acrylic rod
9. wool or flannel cloth
10. Silk cloth

### **Procedure:**

#### **PART 1: MAKING ELECTROSCOPE**

1. Wash, rinse and dry glass jar and lid
2. Drill small hole slightly larger in diameter than the sheathed wire in the center of the lid.



# Electrostatics Chapter 32 Test Answer

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