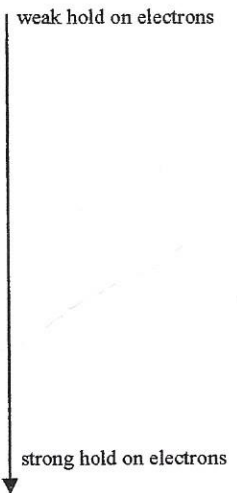


### Electrostatic Quiz

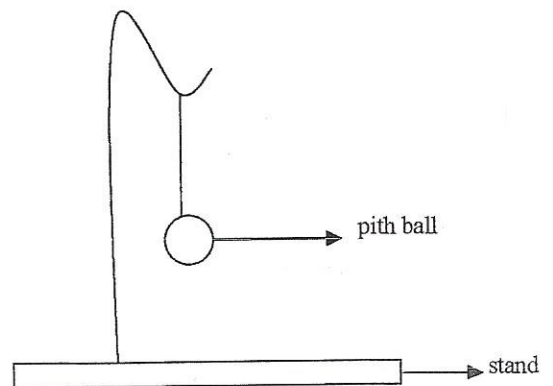
1. Which particles in the atom move when electric charge is transferred from one object to another? (1)
2. List three ways of changing the charge on an uncharged object.(3)
3. Determine, using the Electrostatic Series, the charge on each object when the following materials are rubbed together.(4)
  - a) glass and cotton
  - b) copper and silk
  - c) sulfur and fur
  - d) acetate and wool

#### The Electrostatic Series

Acetate  
glass  
wool  
fur  
calcium, magnesium, lead  
silk  
aluminum, zinc  
cotton  
ebonite  
plastic  
carbon, copper, nickel  
rubber  
platinum, gold



4. Using the apparatus to the right explain how you would identify the unknown charge on the pith ball. (3)



5. If you were given only a negatively charged strip, how could you charge a metal leaf electroscope (2)
- a) positively
  - b) negatively

5. Show what happens to electrons for each diagram below. With arrows indicate the movement of the leaves. (6)

