**Induction Lab**

Charging by induction is the process of charging an object by

* Inducing a **charge separation** by bringing a charged object close to a neutral object.
* Grounding the neutral object.
* Removing the charged object.

**PART I**

1 Set up the lab as shown.

Aluminium ball

Copper rod

Glass beaker

2. What is the Aluminium ball reaction to the rod? How do you know?

3. Draw a picture of the electrons in #2

4. Bring a charged object near, but not touching the copper rod. Does this effect the Aluminium ball? If so, how and why?

1. Draw a picture of the electrons in #4





**PART II**

1. Start again, by neutralizing all items and set up the lab as shown.

Now introduce the charged object again, being careful not to let it touch the rod.





Now, with your finger touch the end of the rod.

Now in this order

1. remove your finger
2. then remove the charged object

Charged object

7. Now slowly bring a neutral aluminum ball near the rod. What happened and why?