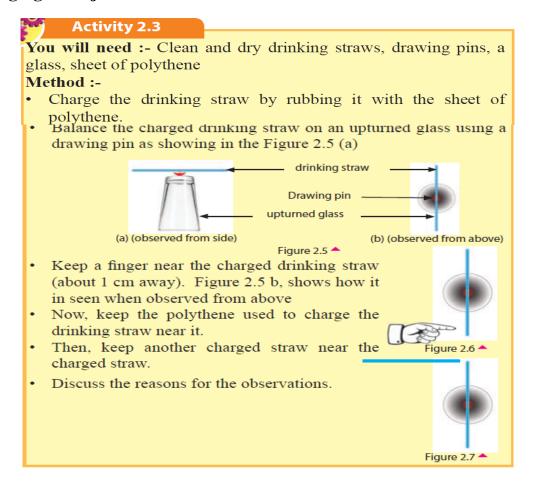


Unit 2 – Static Electricity(2)

> Charging an object



Generation of static electric charges

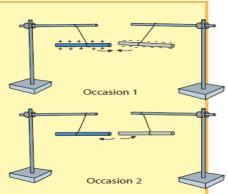


Testing the neutralization of charged objects due to the exchange of static electric charges

You will need: A glass rod and an ebonite rod of equal size, a piece of silk cloth, a piece of woolen cloth, two stands, pieces of thread

Method:-

- Rub the silk cloth against the glass rod and rub the woolen cloth against the ebonite rod. Hang the two rods separately on two stands with pieces of thread.
- Bring two rods close to each other slowly.
- Record the observations.
- Repeat the previous step several times and observe what happens
- Can you observe the same observation as in the previous occasion?
- Discuss the reasons for your sobservations.



| | ew Phenomena | • | |
|------|--------------|------|------|
| | | | |
| | | | |
| | | | |
| | •••• | | |
| | | | |
| | | | |

• Capacitors



Assignment 2.2

Observe the electronic circuits and identify the types of capacitors in radios, televisions and CFLs.



Activity 2.6

Identification of charging and discharging of a capacitor

You will need :- 1000 μF capacitor, three dry cells, a small LED, pieces of wire

Method :-

Connect pieces of wire to the terminals of the capacitor.

Connect the other ends of the wires to dry cells correctly. After few seconds, remove the dry cells and connect the LED correctly to the capacitor and observe (Positive terminal of the dry cell should connect with the positive terminal of LED). Discuss the reasons for your observations.

