



Provincial Department Of Education – Sabaragamuwa
WEEKLY SCHOOL

Subject : Science

Grade 7

Week : 06th of 1st Term

Unit 2 – Static Electricity(1)

➤ **Charging an object**

Activity 2.1

You will need :- A glass rod, a piece of PVC pipe, an ebonite rod, a sheet of polythene, a piece of silk cloth, a piece of woollen cloth, some small pieces of paper

Method :-

Hold the objects given in Table 2.1 close to the tiny pieces of paper. Observe what happens before and after rubbing them and complete the column of the table according to your observations.

Table 2.1 ▼

Instance	Object	Observation when held close to the pieces of paper
Before rubbing	<ul style="list-style-type: none"> Glass rod PVC pipe Ebonite rod
After rubbing	<ul style="list-style-type: none"> Glass rod rubbed with the silk cloth PVC pipe rubbed with the polythene sheet Ebonite rod rubbed with the woollen cloth

• **Types of static electric charges**

Activity 2.2

You will need :- Two rods of glass, two rods of ebonite, a piece of silk cloth, a piece of woollen cloth, few pieces of thread, two stands

Method :-

- Hang one glass rod rubbed with the silk cloth, on one stand.
- Hang one ebonite rod rubbed with the woollen cloth, on the other stand.
- Rub the other glass rod with the silk cloth to charge it. Then bring the charged glass rod separately towards the rods hung.

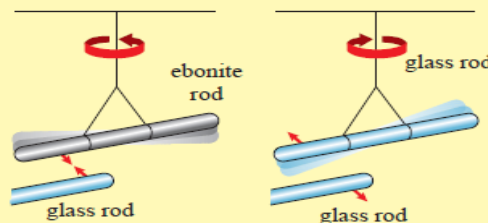


Figure 2.2 ▲ Attractions and repulsions

- Record the observations.
- Rub the other ebonite rod with the woollen cloth and charge it. Then bring it separately towards the rods hung.
- Tabulate your observations. Table 2.2 ▼

Hanging rod	Rod brought towards	Observations
Glass	Glass	Repelled
Ebonite	Glass	
Glass	Ebonite	
Ebonite	Ebonite	