

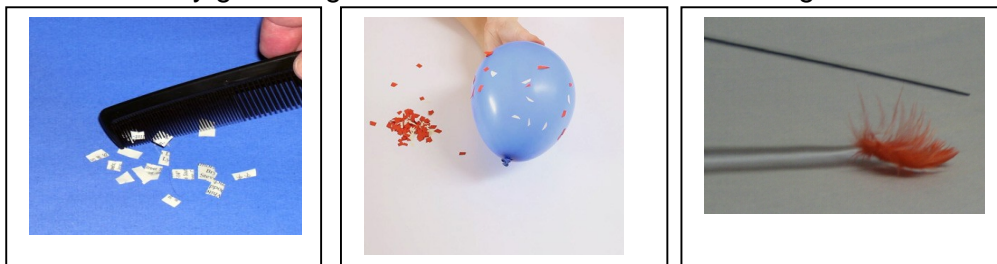
## EXPERIMENT - 1

### STATIC ELECTRICITY

**Aim** : To find the effects of charged bodies which have been rubbed by different materials.

**Required** : Ball pen refill, Comb, Pencil eraser, Steel spoon, Polythene sheet, Woolen cloth, Plain paper, Dry hair (Do not gather).

**Description** : Some objects when rubbed with some special materials acquired the property of attraction. They get charge. This is called static electric charge.



#### **Procedure:**

1. Cut the normal paper in to small pieces.
2. Now rub the refill with plain paper for one minute. Bring the refill near the small paper pieces.
3. Observe whether the refill attracts the paper pieces or not ?
4. Note down the observations in the table.
5. Now repeat the same procedure by rubbing refill with polythene sheet, woolen cloth and dry hair respectively.
6. Note down the observations in each and every case.
7. Continue this procedure by using inflated balloon, eraser and steel spoon instead of refill.
8. Note down the observations in each and every case.

#### **Observations :**

| Rubbed object    | Material used for rubbing | Whether paper pieces attracted or not ? |
|------------------|---------------------------|---|
| Refill           | Plain paper               |   |
|                  | Polythene sheet           |   |
|                  | Woolen cloth              |   |
|                  | Dry hair                  |   |
| Inflated balloon | Plain paper               |   |
|                  | Polythene sheet           |   |
|                  | Woolen cloth              |   |
|                  | Dry hair                  |   |

| Rubbed object | Material used for rubbing | Whether paper pieces attracted or not ? |
|---------------|---------------------------|---|
| Comb          | Plain paper               |   |
|               | Polythene sheet           |   |
|               | Woolen cloth              |   |
|               | Dry hair                  |   |
| Pencil eraser | Plain paper               |   |
|               | Polythene sheet           |   |
|               | Woolen cloth              |   |
|               | Dry hair                  |   |
| Steel spoon   | Plain paper               |   |
|               | Polythene sheet           |   |
|               | Woolen cloth              |   |
|               | Dry hair                  |   |

### **Precautions :**

- Blow air in to the balloon slowly, other wise it may blast.
- If paper pieces do not attracted by the object then check again to confirm the observation.
- Instead of dry hair, we can rub on head directly.

**Result :** Observed the effects of charged bodies which have been rubbed by different materials. [ignitephysics.weebly.com](http://ignitephysics.weebly.com)

NAGA MURTHY- 9441786635  
 Contact at : [nagamurthysir@gmail.com](mailto:nagamurthysir@gmail.com)  
 Visit at : [ignitephysics.weebly.com](http://ignitephysics.weebly.com)