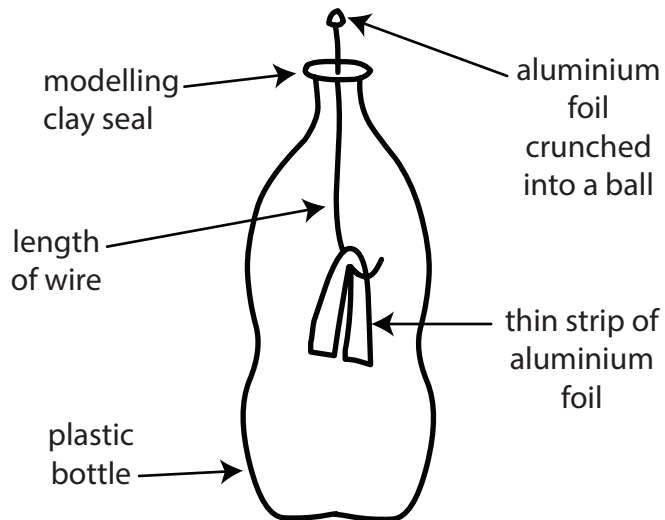


**Aim:** To find out which materials build up the strongest static electric charges.

## Equipment I used:

A home made electroscope and an inflated balloon.



## Materials I Tested:

Choose between:

human hair, woollen clothing, cotton clothing, nylon or polyester clothing, foam packaging, plastic packaging, glass, tissue paper, cardboard.

## What I Did:

- 1) Rub a balloon vigorously on your first item.
- 2) Hold it near the aluminium foil ball on the top of the electroscope.
- 3) Mark the bottle with a coloured felt tipped marker to show how far the aluminium strips move apart. (Use a different coloured felt tipped marker for each item.)
- 4) Rub the balloon on a metal surface and touch the aluminium ball with your fingers to discharge the balloon and 'reset' the electroscope.
- 5) Rub the balloon on the next item and repeat the experiment.

## Observations:

| item tested | marker colour | rank (from smallest to largest) |
|-------------|---------------|---------------------------------|
|             |               |                                 |
|             |               |                                 |
|             |               |                                 |
|             |               |                                 |

## Conclusions: