

## Chapter 19: Static Electricity

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### Questions to make you think

1. Why do you sometimes get goose-pimples in cold weather?
2. Why does your hair stand up when you get a fright?
3. What do you think is the evolutionary purpose behind this (hint: it also happens when you get an electrical shock)?
4. Electrons are negatively charged, protons are positively charged and opposite charges attract. So why don't the electrons 'fall' into the nucleus? Why do lots of similarly-charged protons co-exist peacefully in the nucleus?

### Charge

If an object has more electrons than protons it is negatively charged, if the object has more protons than electrons then it is positively charged)\*.

Opposite charges attract; similar charges repel each other.

You can demonstrate this by hanging two oppositely charged rods as shown and note that they both move towards each other.



The symbol for charge is **Q**.

The unit of charge is the Coulomb – symbol is **C**.

So for example an electron has a charge of  $1.6 \times 10^{-19}$  Coulombs (this value is in the log tables so you don't need to learn it).

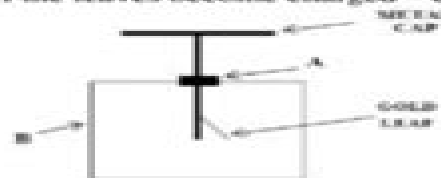
A proton happens to have the same charge as an electron (we have no idea why – we suspect it's not coincidence).

### The Gold Leaf Electroscope

You must know the structure of an Electroscope and list some of its functions.

If the GLE is uncharged, the leaves will fall together.

If the leaves become charged – either positively or negatively – the leaves will stand apart (why?).



A = insulated joint, B = metal case



**Functions:**

1. To detect charge
2. To distinguish between positive and negative charge
3. To indicate approximate size of a charge
4. To test if an object is a conductor or an insulator

How would you use an electroscope to demonstrate each of these?

Can you figure out why the case needs to be metal (some designs have a timber case but have a metal strip all along the inside)?

### Earthing

If an object becomes charged (due to a build-up of electrons say), and the object is then 'earthed' (connected to earth), the electrons will separate as much as possible, resulting in most of them quite literally 'going to earth'.

The object then becomes neutral.

# Chapter 13 Study Guide Physics Static Electricity

**Stanley A. Williams**



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