Unit 9 – Electrostatics and Electric Circuits

Static Electricity

There are two kinds of charges: protons (+) and electrons (-). Matter is neutral or uncharged because it contains an equal number of protons and electrons.

An object becomes charged positively because it loses electrons and an object becomes charged negatively because it gains electrons.

Static Electricity – the build up of electric charge

The Fundamental Law of Electric Charges:

- 1) Opposite charges attract.
- 2) Like (similar) charges repel.
- 3) Charged objects attract neutral objects.

Methods of Charging

1) By Friction – two objects rub together and one of them "takes" electrons from the other.

