

Electricity and Why it Moves

Electricity

Electricity is moving electrons; Protons can't move.

Protons are held together in the nucleus by the strong nuclear force, the strongest force in nature, but **electrons can move**.



Electricity comes from electrons moving between atoms.

Charge

Objects can be positive, negative, or neutral. The unit of charge is the **coulomb (C)**.



A **neutral object** has an equal amount of protons and electrons.



A **positive object** has lost electrons, so it has more protons than electrons.



A **negative object** has gained electrons, so it has more electrons than protons.

Electric Force

Any two charges feel a force between them. Electric force depends on the types of charges, the distance between the charges, and the amounts of the two charges.

Attracting Force



Opposites attract

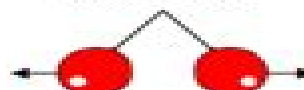
Positive hydrogen atoms in water are attracted to the negatively charged balloon, causing the water stream to bend slightly toward the balloon.



Repelling Force



Likes repel



Two charged balloons repel each other, so they must be the same charge (negative).

Just like gravity, electric force increases as distance decreases. **Closer charges: more force.**

Less force



More force



Electric force increases if either of the charges increases. **More charge: more force.**



More force



Separating Charges

Naturally, objects are neutral. Work must be done to separate charges. Separating charges cause a charge difference and the electric force tries to move the charges back to neutral.

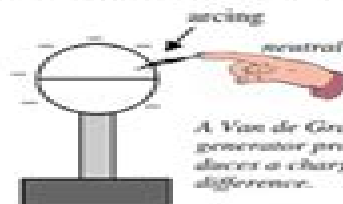
When two insulators rub, charges move between them, causing a separation of charge (static electricity) and an electric force.



Afterwards the rod is charged and it can exert an electric force.

If there is a difference of charge electricity can move between objects. A big enough difference can cause electricity to arc (jump a gap). Bigger differences of charge allow bigger arcs.

No difference in charge—electricity can not move.



A Van de Graaff generator produces a charge difference.



A big charge difference can push thru big gaps, like lightning arcing all the way to the ground.

Batteries

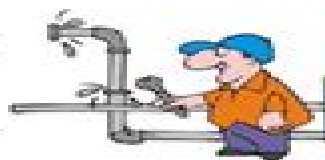


Batteries cause electrons to move by separating charges in chemicals. When connected by wires the charge can flow, eventually neutralizing the battery.

Ground

Ground (the earth) can take or give an infinite number of electrons. Ground is electrically neutral. Both positive and negative charges will neutralize when grounded.

To ground something you can often touch it to a pipe. Pipes are usually connected to ground somewhere in the building.



A **positive object** will take electrons from ground.

Symbol for ground



A **negative object** will give electrons to ground.

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