

Science : Electricity

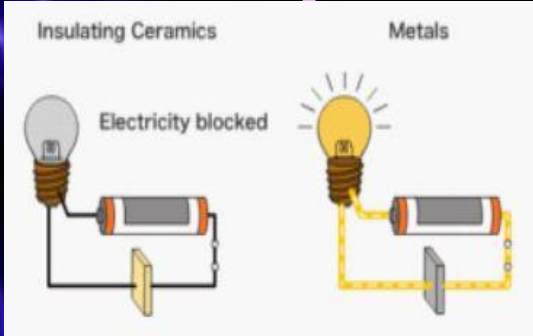


5 Electrical Conductors

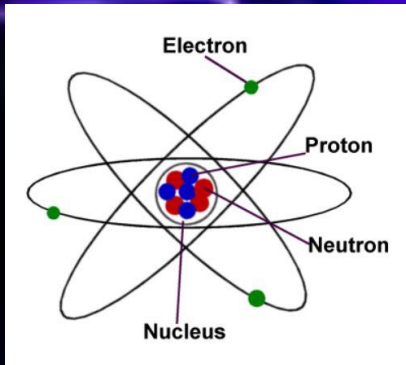
silver gold copper steel sea water

5 Electrical Insulators

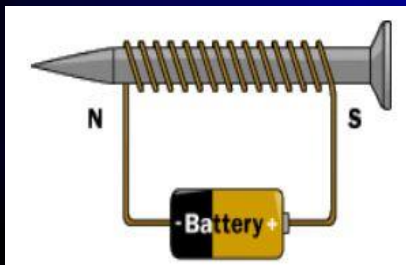
rubber glass oil diamond dry wood



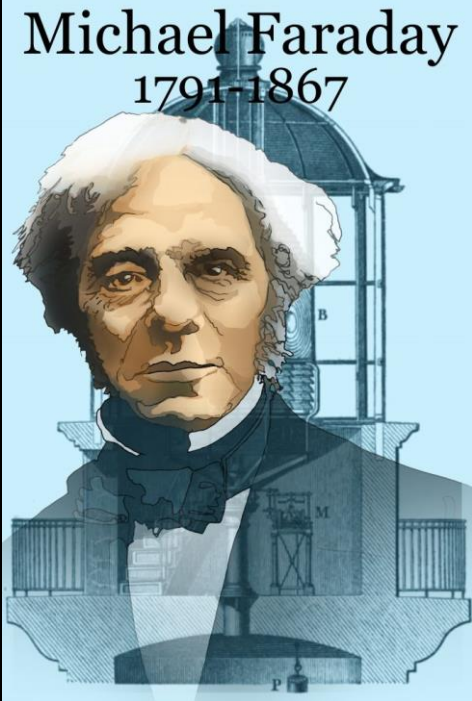
An atom:



An electromagnet:



Protons = positive charge +
Neutrons = no electrical charge
Electrons = negative charge –
 (orbit the nucleus of the atom)



Electricity vocabulary	
Electric charge	is the physical property of matter that causes it to experience a force when placed in an electromagnetic field.
Static	A stationary electrical charge caused by friction, causes sparks or crackles - can attract dust or hair.
current	A flow of electricity resulting from ordered directional movement of electrically charged particles.
conductor	A material/substance which allows electrical current to pass through.
insulator	A material or substance which stops electrical current from passing through.
Electro-magnet	a soft metal core made into a magnet by the passage of electric current through a coil surrounding it.

Name	Picture	Symbol
Battery		
Bulb		
Switch		
Ammeter		
Buzzer		

Circuit Vocabulary	definition
circuit	Closed – allows electricity to flow Open – stops the flow of electricity.
ammeter	Measures electric current (in amps) in a circuit.
wire	Metal drawn out into a thin flexible thread or cable used for conducting electricity.
filament	A wire, forming part of a bulb, which glows which hot (incandescent) when electric current passes through it.
fuse	a safety device consisting of a strip of wire that melts and breaks an electric circuit if the current exceeds a safe level.