

# Electricity

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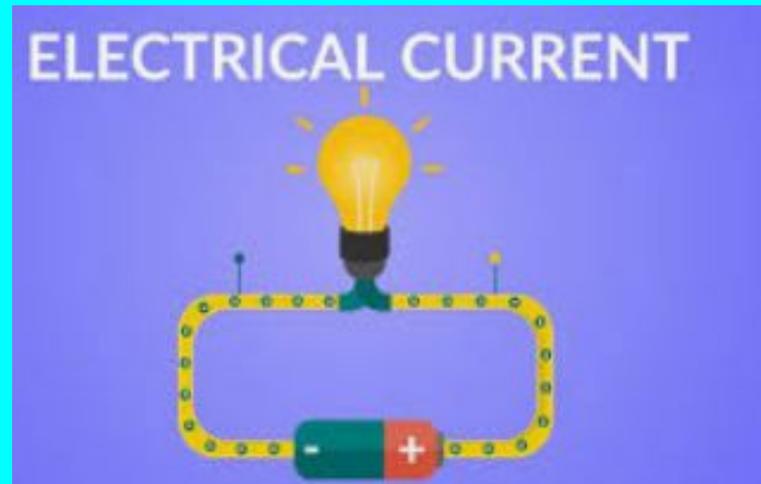
Electricity is the presence or flow of charged particles.



# Electric current

# Electric current

An electric current is a flow of charge, and in a wire this will be a flow of electrons.



Flow

# Flow

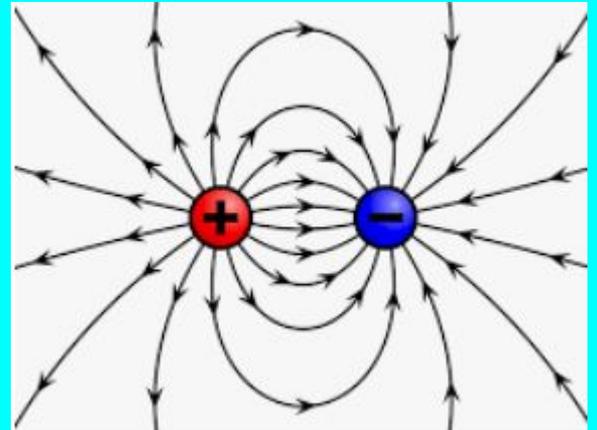
Electricity is the flow of tiny particles called electrons and protons. It can also mean the energy you get when electrons flow from place to place.



# Electric charge

## Electric charge

The physical property of matter that causes it to experience a force when placed in an electromagnetic field.



Generate

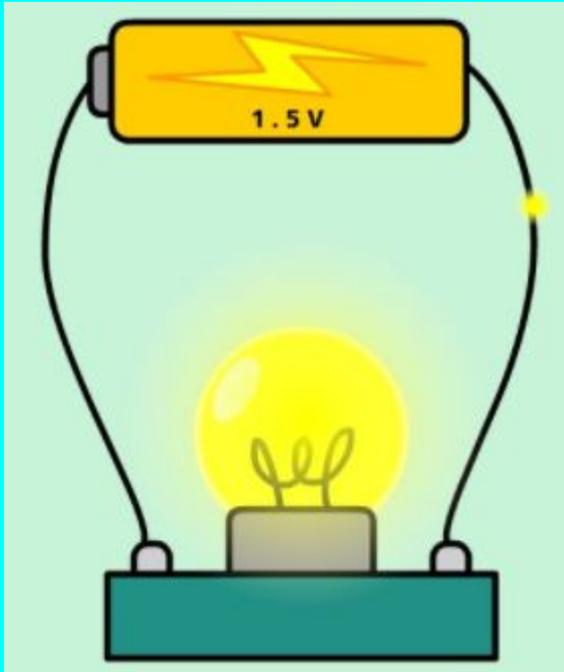
# Generate

A way to make electricity.

# Current electricity

# Current electricity

The amount of electricity flowing through the circuit



What is a material?

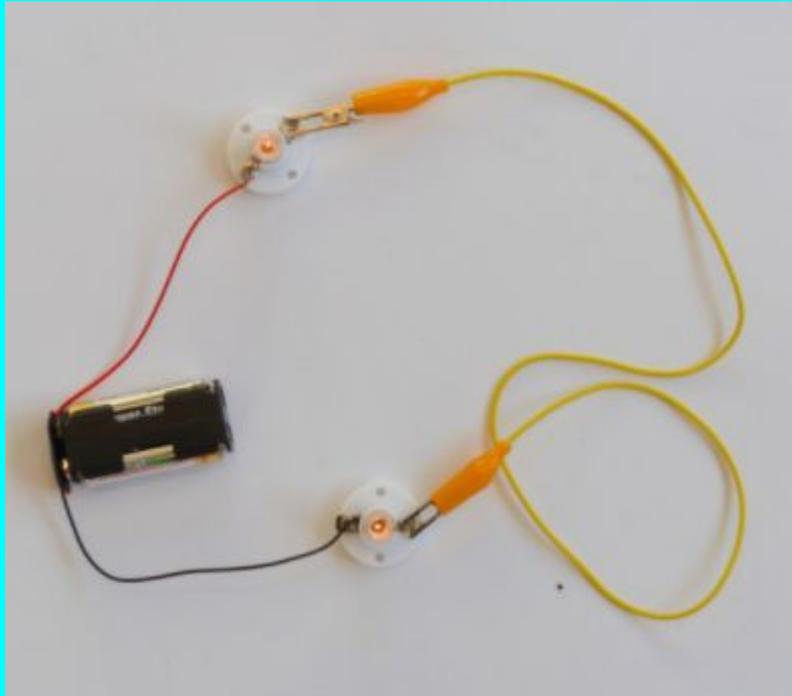
Material  
material is any substance that has a name



Wires

## Wires

long, thin and flexible pieces of metal.



Power source

Power source  
A source of electrical energy



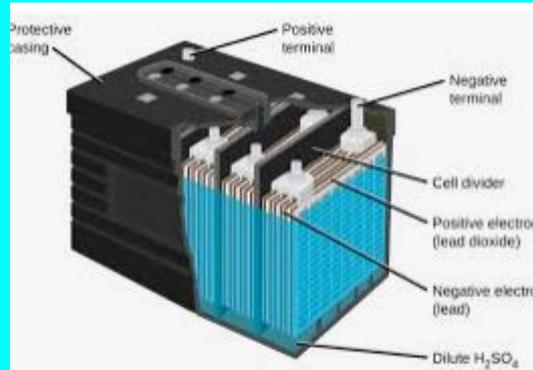
Appliance



batteries(DC)

# batteries(DC)

a container consisting of one or more cells, in which chemical energy is converted into electricity and used as a source of power.



# Mains electricity (AC)

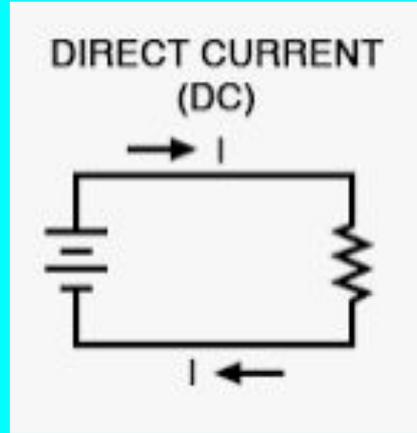
# Mains electricity (AC)

Mains electricity is when items are plugged into electrical wall sockets



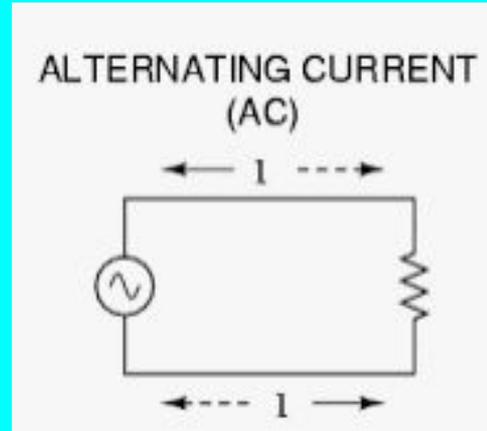
Direct

Direct current (DC) is an electric current that is unidirectional, so the flow of charge is always in the same direction.



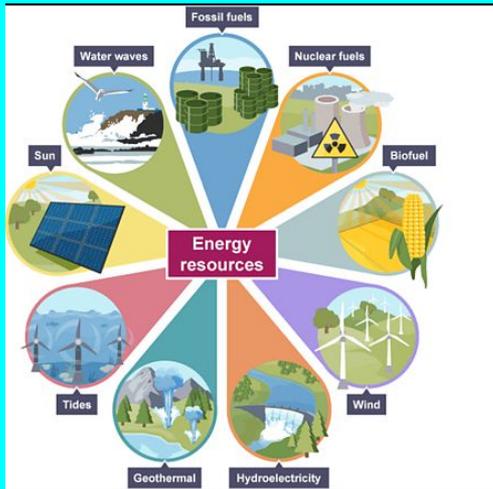
Alternating

Alternating current (AC) is an electric current of which magnitude and direction vary.



# Energy source

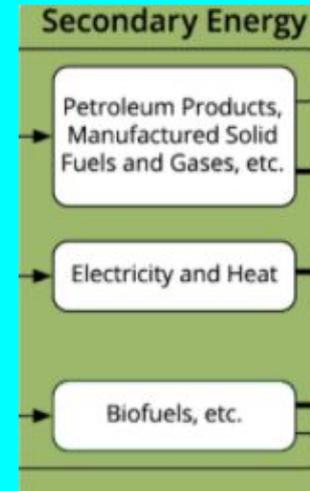
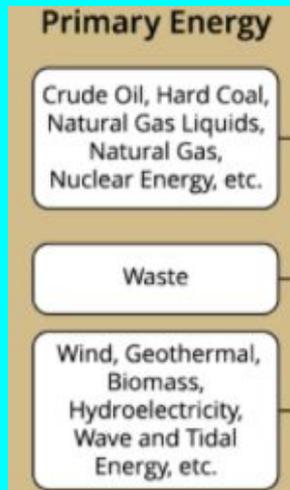
A source from which electricity can be extracted



Energy source

primary/secondary energy source

Primary energy consists of unconverted or original fuels. Secondary energy includes resources that have been converted or stored



Fossil fuels

# Fossil fuels

A fossil fuel is a fuel formed by natural processes, such as anaerobic decomposition of buried dead organisms



Wind power

Wind power or wind energy is the use of wind to provide mechanical power through wind turbines.



Solar power

# Solar power

Solar power is the conversion of energy from sunlight into electricity



Hydro power

# Hydro power

Hydropower or water power is power derived from the energy of falling or fast-running water.



renewable/non-renewable

Nonrenewable energy resources, like coal, nuclear, oil, and natural gas, are available in limited supplies. Renewable resources are replenished naturally and over relatively short periods of time.

