

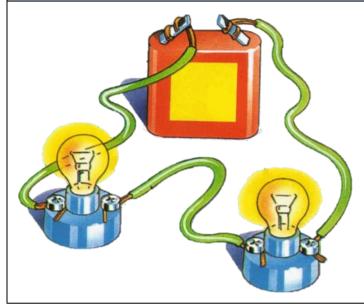
KNOWLEDGE ORGANISER

Washing Machine

Dishwash

ressure cooke

Overview



-Electricity is a type of energy.

-It is used to power lots of different things, including many items that we use in everyday life.

-Electricity can flow through wires and cables, and can be stored in batteries (sometimes called cells).

-Electricity can flow in simple series electrical circuits.

-Some materials conduct electricity, and others do not (insulators).

Creation and Uses of Electricity

Blender

Lamp

Refrigerator

Vacuum cleane

Electric fan

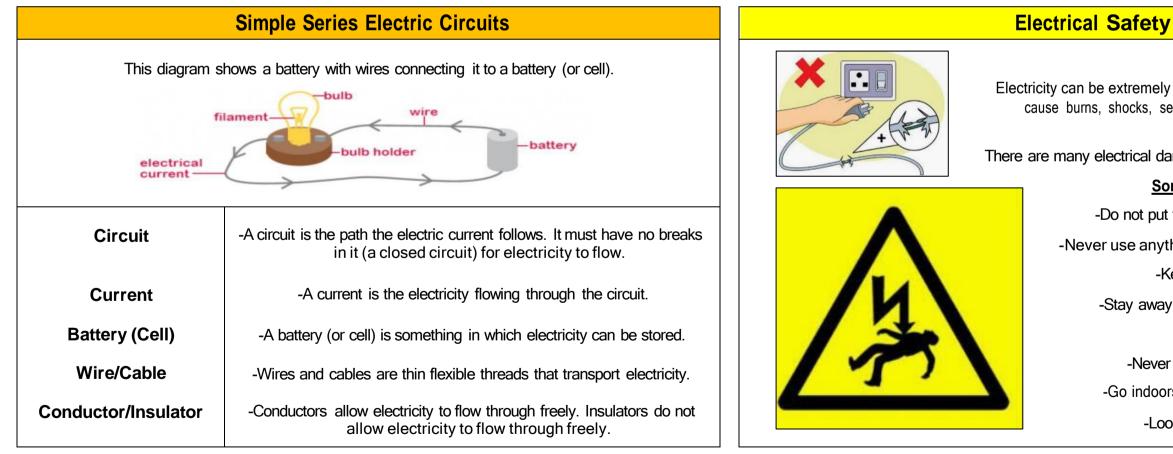
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Electricity can be created in a number of different ways, for example:

-Burning fossil fuels (oil, gas, etc.) in power stations;

-Using solar power generated from the sun;

Electricity is used to power numerous household appliances, for example laptops, TVs, fridges, microwaves, toasters, ovens and lights/ lamps. Life would be very different without it!



Conductors							
Silver	Gold	Copper	Steel	Sea Water	Rubber	Glass	Oil



-Using wind power from wind turbines;

-Using water power (hydropower).

Electricity can be extremely dangerous if it is not used safely. It can cause burns, shocks, serious injury and (in extreme cases) even death.

There are many electrical dangers, both in the home and outdoors.

Some Important Electrical Safety Trips

-Do not put fingers and other objects in an outlet;

-Never use anything with a cord or plug around water;

-Keep metal objects away from toasters; -Stay away from power stations and power lines;

-Never pull a plug out by its cord;

-Never touch or climb trees near power lines; -Go indoors when there is thunder and lightning.

-Look out for signs like the one on the left.

Insulators

Diamond

Dry Wood