




Topic:	Electricity	Year:	4	Term:	Spring 1
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Electricity in our lives:


Many everyday appliances rely on electricity to work, for example; toaster, lamp, kettle, laptop, phone, torch, washing machine). Some use mains electricity (plugged into a socket) and others have batteries to make them work.





Key Vocabulary


electricity  a form of energy that can be carried by wires and is used for heating, lighting and to power devices.

appliance  equipment or device designed to perform a particular job, such as a washing machine or mobile phone

battery/cell  a device that stores electrical energy as a chemical.

circuit  a complete path that an electrical current can flow around.

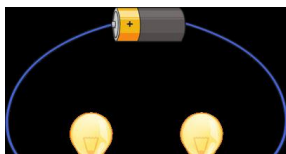
electrons  very small particles that travel around an electrical circuit

insulator  a material that electricity cannot pass through.



What is an electrical circuit?

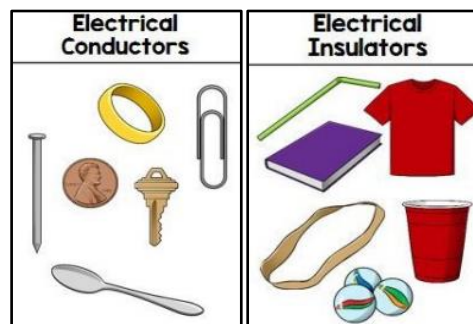
Electricity can only flow around a complete circuit that has no gaps. There must be wires connected to both the positive and negative end of the power supply. Switches can be used to open and close circuits.



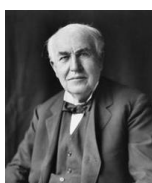
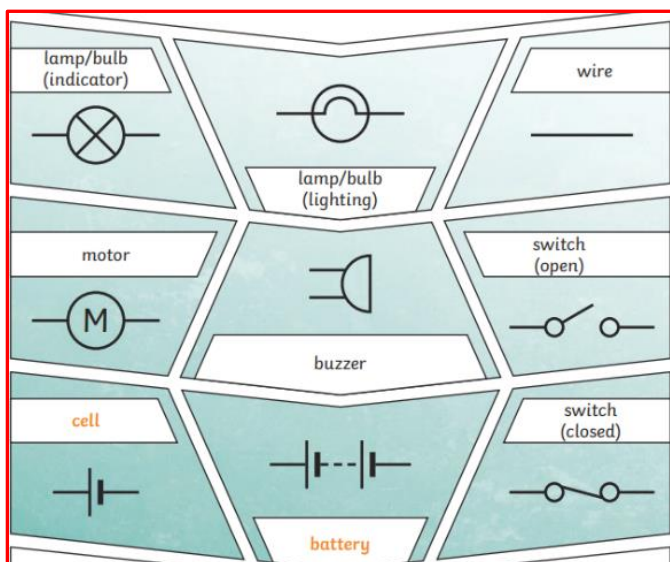
What are electrical conductors and insulators?

A conductor of electricity is a material that will allow electricity to flow through it. Metals are good conductors.

Materials that are electrical insulators do not allow electricity to flow through them. Wood, plastic and glass are good insulators.



Circuit Diagram Symbols



Thomas Edison –1847-1931
An American inventor who is best known for the design of an first working lightbulb and the moving image AC power and

designing the first



Nikola Tesla – 1856-1943
creating the A Serbian inventor best known projector, electric motor that could run on hydroelectric power plant.