

Year 6-Term 2 – Science – Electricity.



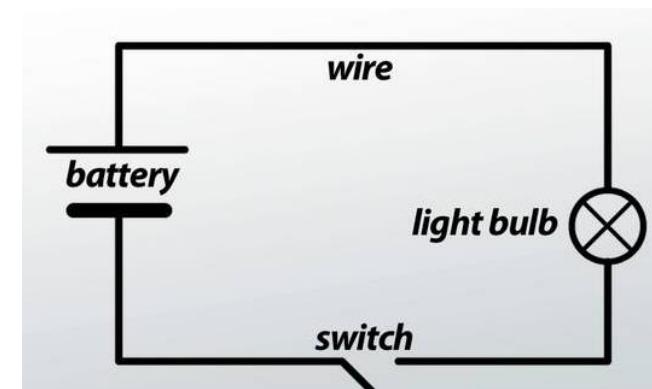
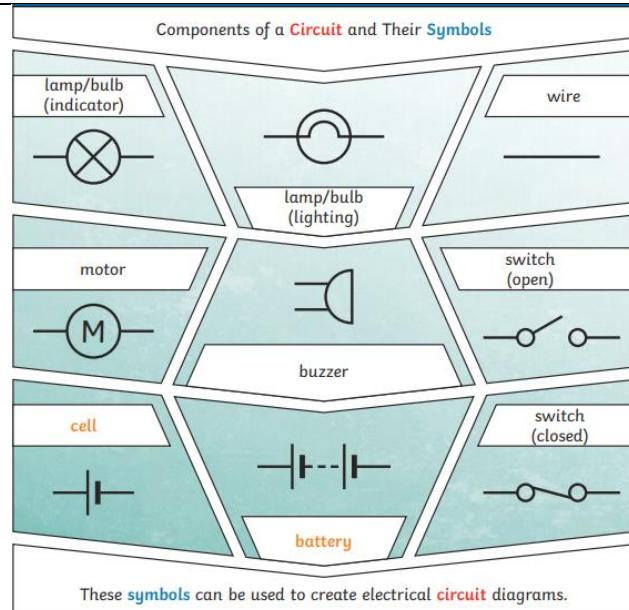
Curriculum Key Question: Where are we going?
Topic: Letters from the lighthouse.

What should I already know?

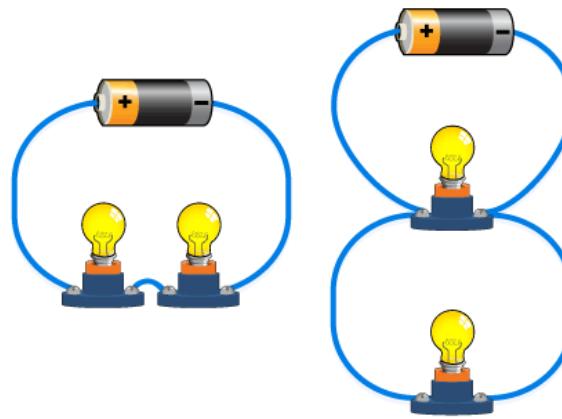
Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.
 Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery.
 Recognise that a switch opens and closes a circuit.
 Recognise some common conductors and insulators, and associate metals with being good conductors.

Scientific skills:

To independently ask a variety of scientific questions and decide the type of enquiry needed to answer them.
 To identify variables to change, measure and keep the same in order for a test to be fair.
 To decide whether to repeat any readings and justify the reason for doing so.
 To spot unexpected results that do not fit the pattern (anomalies).
 To say how confident I am that my results are reliable and give a reason.



Series and parallel circuits:



Key vocabulary:

Ammeter: Measures the current in circuit appliances.
Battery: Small devices that provide power for electrical items.
Buzzer: Electrical device that makes a buzzing sound.
Cell: Synonym, for battery.
Circuit: Complete route which an electric current can flow around.
Component: The parts that something is made of.
Conductor: Substance that heat or electricity can pass through or along.
Current: A flow of electricity through a wire or circuit device.
Electricity: A form of energy that can be carried by wires.
Fuel: A substance such as coal, oil or petrol that is burned to provide heat or power.
Insulator: A non conductor of electricity or heat.
Mains: Where the supply of water, electricity, or gas enters a building.
Motor: Device which uses electricity or fuel to produce movement.
Resistor: Part of a circuit which removes resistance to some of the current.
Voltage: The force an electric current is measured in. (Volts)