Physics: Electricity



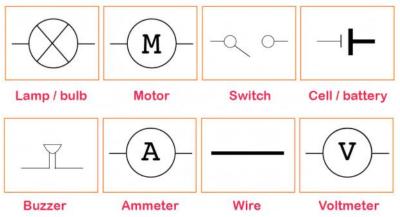
What should I already know?

- Some things need electricity to work.
- Switches are used to turn things on and off.

What am I going to learn?

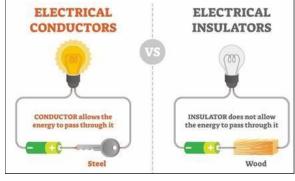
- That many common appliances run on electricity.
- How to construct a simple series electrical circuit.
- What is needed to make a simple series circuit successful.
- To identify and name the components in a series circuit, including cells, wires, bulbs, switches and buzzers.
- That a switch opens and closes a circuit.
- To recognise some common conductors and insulators, giving examples of each, and associate metals with being good conductors.

Vocabulary	
Appliance	A piece of equipment designed to perform a job, such as a washing machine or a phone.
Battery	A device that stores electrical energy.
Circuit	A pathway that electricity can flow around.
Conductor	A material which energy (in this case, electricity) can flow through.
Insulator	A material which energy (in this case, electricity) can not flow through easily.
Electricity	The flow of an electric charge through a material.



Enquiry

Types



Fair

Testing

Research

Problem

Solving

Working Scientifically

I will plan how to create a switch of my own considering what materials will complete the circuit.

Pattern

Seeking

Identifying, Grouping

and Classifying

• I will create several circuits using switches, bulbs and buzzers.

Observing changes

over time

- I will interpret the effeteness of my circuit and switch based on the brightness of the bulb and consider what I could change.
- I will evaluate the success of my switch and consider how I could make it more successful next time using different materials.

Connecting Concepts





