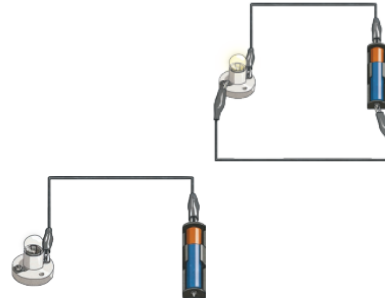


Science – Electricity

Investigation Scientists design and carry out investigations.	Biology Scientists have an understanding of life and living processes.	Chemistry Scientists have an understanding of materials and their properties.	Physics Scientists have an understanding of physical processes.
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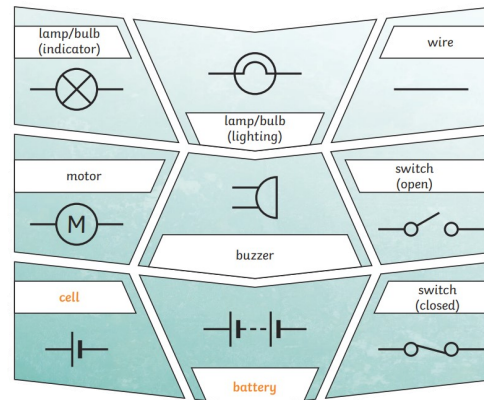
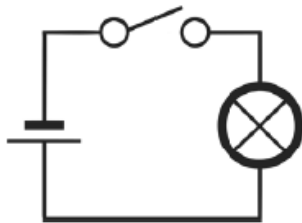
What should I already know?

Series circuit— where the components are connected in a loop.
 Complete circuit— Electricity can flow. The components will work.
 Incomplete circuit— There is a break in the circuit that prevents

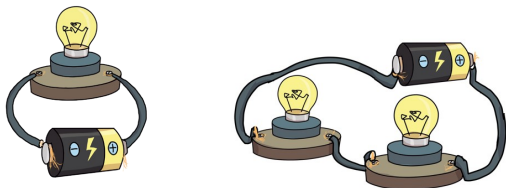


What am I going to learn?

These symbols can be used to create electrical circuit diagrams.



Learn to compare and give reasons for variations in how components function including the brightness of bulbs.



Think about how to create a for traffic lights.



Key Vocabulary	Definition
cell	A path that an electrical current can flow around.
symbol	A visual picture that stands for something else.
cell/battery	A device that stores chemical energy until it is needed. A cell is a single unit. A battery is a collection of cells.
electrons	Very small particles that travel around an electrical circuit
amps	How electric current is measured.
current	The flow of electrons, measured in amps.
voltage	The force that makes the electric current move through the wires. The greater the voltage, the more current will flow.
resistance	The difficulty that the electric current has when flowing around a circuit

Key Scientist (s)

Mildred S Dresselhaus
 Materials Scientist whose research led to the development of the rechargeable batteries in all modern electronic equipment!



Key Scientist (s)

After witnessing a horrible crash, Morgan invented and patented a three-position traffic signal in 1923.



Working Scientifically

What will make a bulb brighter or a buzzer louder?

How can I make a traffic light?