Science Knowledge Organiser

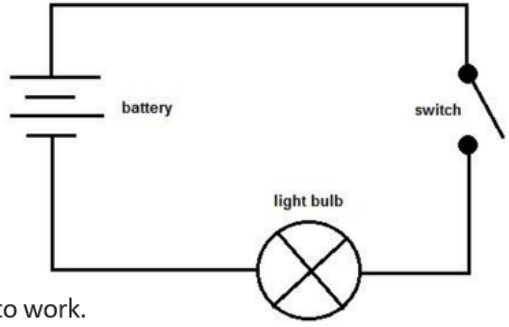
Year 4	Electricity	Autumn 1

Vocabulary

Appliance	A device or piece of equipment that has been made to perform a specific task.
Battery/cell	A small item used to provide power to a circuit.
Components	The parts of a circuit.
Conductor	Allows electricity to flow through it.
Insulator	Doesn't allow electricity to flow through it.

A simple circuit:

The circuit has to be complete to allow electricity to travel all the way around it.



Lots of **appliances** around our house use **electricity** to work.





Most big appliances in our house have to be **plugged in**. These are powered by **mains power**. Some smaller appliances can bepowered by **batteries**. Some appliances have batteries that need to be **charged** by mains power.

Sticky Knowledge

Insulators	Conductors
fabric	tin foil
plastic	tin can
paper	steel spoon
string	penny
wood	

When we put **a switch** in an electrical circuit and turn it to the on position, it completes the circuit and allows electricity to **flow** around the circuit. When we turn the switch to the **off position**, this creates a break in the circuit meaning the electricity **cannot flow** anymore and the appliance will not work.


paddle switch


push button switch


pull switch