Science Knowledge Organiser

Year 5	Electricity	Autumn 1

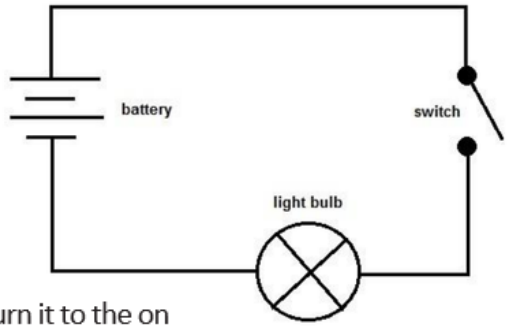
Vocabulary

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.
Portable	Can be moved around.
Pylon	A tower used for keeping electrical wires above the ground
Non-renewable	Non-renewable energy cannot be used again e.g. oil, coal and gas.
Renewable	Renewable sources of energy can be used again and again – wind, hydro and solar power.

Sticky Knowledge

A simple circuit:

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



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.

When scientists draw electrical circuits, they use **scientific symbols** to show **different components.**

