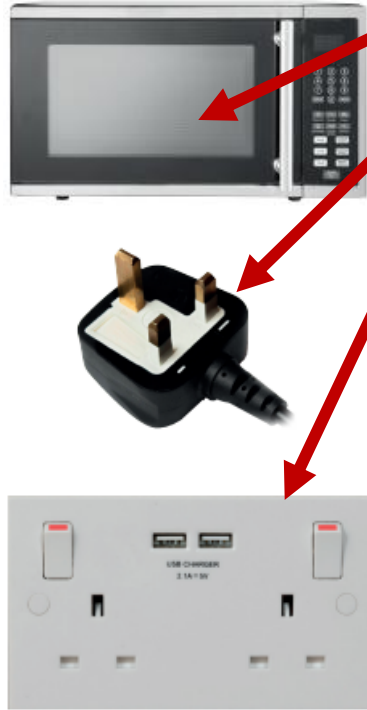


Year 4 - Science - Spring 2 - Physics - Electricity

Sticky Knowledge

1. What is electricity?
2. Where is electricity used?
3. What appliances require electricity?
4. What is the difference between a cell and a battery?
5. What are the dangers of electricity? How can we keep ourselves safe?
6. What is a circuit?
7. How can a circuit be shown in a diagram?
8. What is a conductor / insulator? What are the differences?
9. Which materials make good / bad conductors or insulators?



Key Vocabulary

appliances	Electrical devices used for a purpose e.g. fridge, oven etc.
plug	A device put into a socket to connect to an electrical circuit.
socket	The part of the electrical circuit where the plug fits to make the connection.
cell	A portable store of energy
battery	Two or more cells joined together to store more energy.
electrocuted	To be injured or killed by electricity.
circuit	A closed path that energy can flow through
switch	A device that opens and closes an electrical circuit.
buzzer	A device that makes a sound.
conductor	A material that allows energy to flow through it.
insulator	A material that doesn't allow energy to flow through it.
material	What an object is made from.

cell or battery?



or



Electrical Safety



Exposed electrical wires can cause electric shocks or result in fires.



Keep electrical appliances and components away from water.

Complete Circuit

Complete **circuits** will work because the components are all connected as part of a continuous loop.



Incomplete Circuit

An incomplete **circuit** will not work because it will either be missing components or connected in such a way that it does not form a continuous loop.

