

What uses electricity?

Electricity is a form of energy.

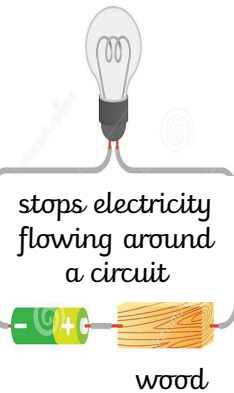
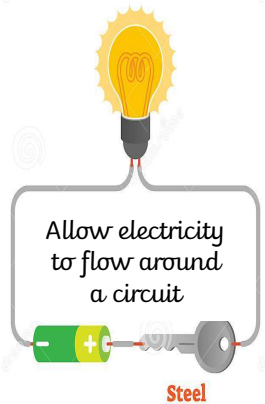
Many appliances use electricity.



electrical conductors

electrical insulators

VS



silver



gold



glass



rubber



salty water



copper



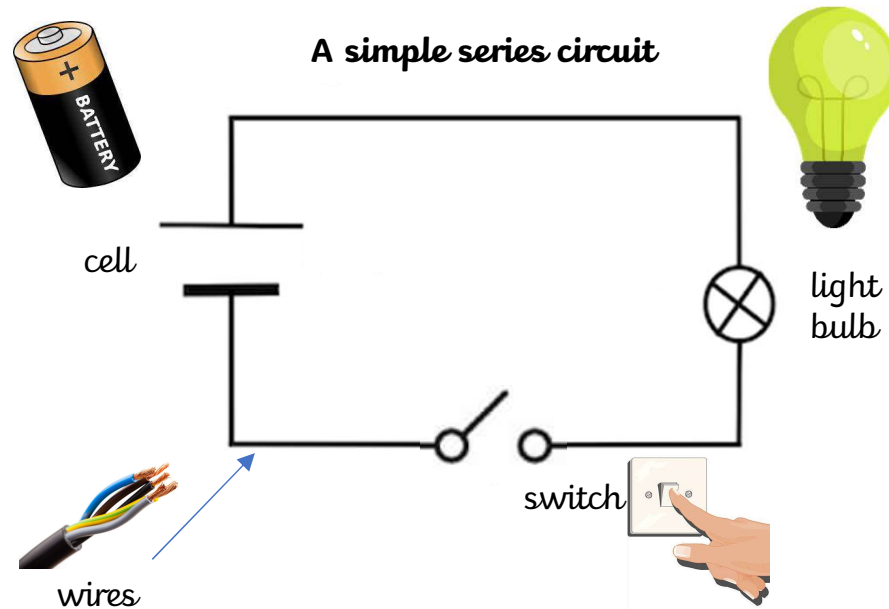
plastic



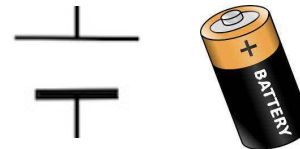
oil

Metals are good conductors

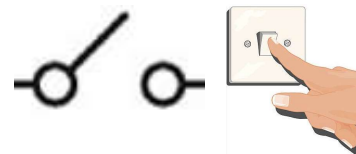
Year 4 How can we switch off? Knowledge organiser



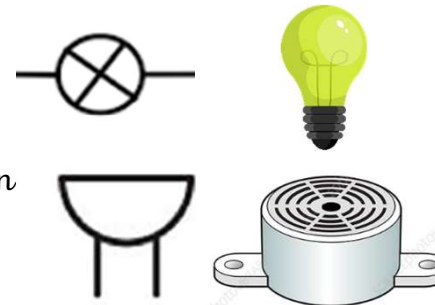
Cell – also called a **battery**. Gives electrical power to the circuit. A circuit **MUST** have a power source.



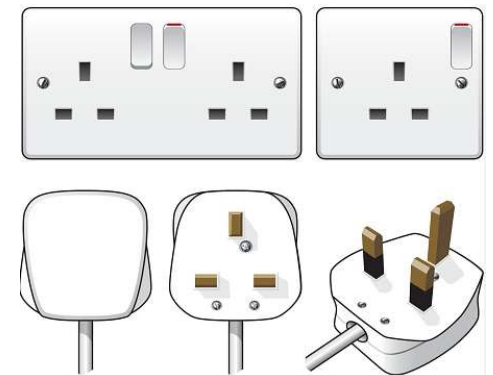
switch – A switch opens and closes a circuit. Electricity cannot flow if the circuit is broken.



bulb – it creates light when electricity flows through it.



buzzer – it makes a noise when electricity flows through it.



Electricity can be sent to our houses through wires underground. We get this electricity by plugging our equipment into the wall.



Wires

Wires are **metal inside** because metals are good **conductors**

Wires are **rubber outside** because rubber is an **insulator** which protects us from electrical shocks