

ELECTRICAL CURRENT



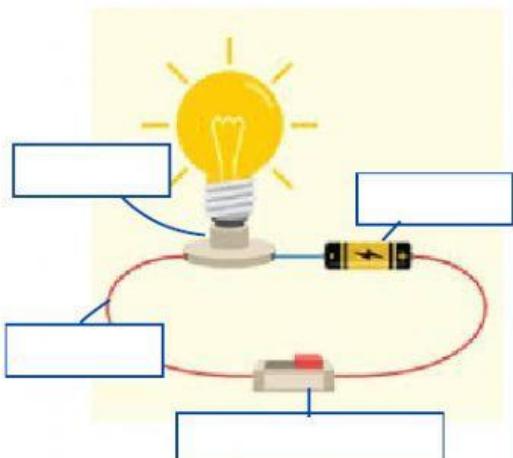
When electrical charges move, they are known as electric **current**.

Electrical current is the flow of substance through a

Usually is the flow of electrons through

CIRCUITS: In order for the current to flow, it requires an electric circuit

1. Label the different components:



2. Match these words with the correct definition:

POWER SOURCE
CIRCUIT
WIRES
CURRENT
SWITCH
ELECTRICAL DEVICE/LOAD

the flow of electricity

they conduct electricity

it supplies the electrical current

converts electricity into another type of energy

a closed path of electricity

it opens or closes the circuit

3. Answer:

In radio, electrical energy is transformed into ... energy.

- mechanical
- sound
- light
- heat

In a simple circuit, why does a light bulb go out when you close the switch?

- Because the switch produces electricity.
- Because too much electricity flows through the bulb.
- Because the electricity doesn't flow when you close the switch.
- Because opening the switch breaks the circuit.

... is an example of an electrical conductor material.

- Metal
- Plastic
- Wood
- Glass

Why is electrical wiring usually covered with a layer of plastic?

- it helps electricity to flow along the wire.
- It is an electrical conductor.
- It is not shiny or magnetic.
- It is a good electrical insulator so it makes it safe to touch the wire.

4. Complete the missing words:

It is responsible for supplying the electrical current SOURCE

It opens or closes a circuit.

It conducts electricity. It is made out of copper.

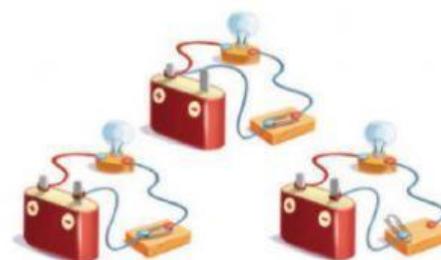
It converts electricity into another type of energy. DEVICE

When an electrical charge moves, it forms an electric current. In order to flow, the current requires an unbroken electric circuit made up of different components:

- The power source, like a battery, is responsible for supplying the electrical current.
- An electrical component which converts electricity into another type of energy, for example a light bulb converts electricity into light.
- The conductors which conduct electricity and are usually made out of copper, because it is very good electrical conductor.
- A switch that opens or closes the circuit. If the switch is open, the current cannot flow but it can flow when it is closed.

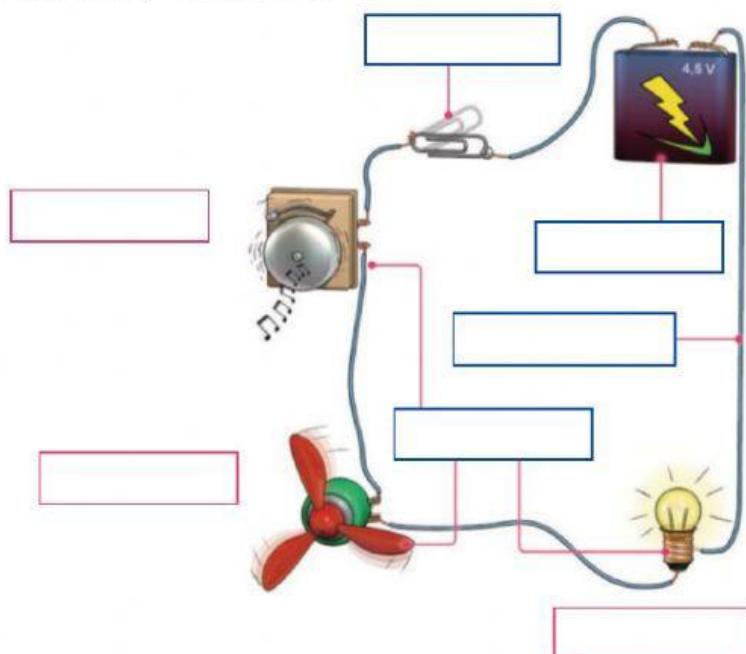
Which circuit will turn the light bulb?

Why?



Electricity is a very useful form of ENERGY . It can easily be transformed into different forms. You have some examples bellow.

1. Label the different components of the electric circuit
2. Label in what form of energy is the electricity transformed



Which circuit will turn the light bulb?

