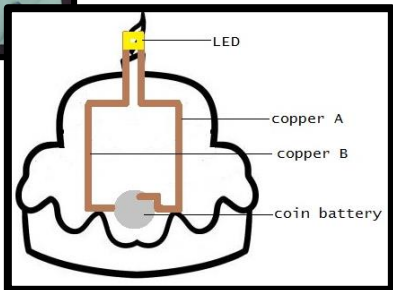


DT - Year 4 - 2.3 Paper Circuits - Electronics: Paper circuit greeting card

What should I already know?

- Circuits are made up of different parts such as: wires, batteries, lights and switches
- When a circuit is closed it allows electricity to flow around it and power a light - switch is on
- When a circuit is open there will be no electricity flowing to the bulb so it won't light up - switch is off
- A conductive material is needed for the wires for electricity to flow around the circuit.

Example of a paper circuit card



Key Vocabulary

Circuit	Electrical parts all joined together to form a loop that allows electricity to flow around.
Cell	Store electricity in batteries.
Battery	Two or more cells joined together in a line that provide a source of power for devices.
Product	Something that has been created or made
Purpose	The reason for which something is made
Inspiration	Where you got your ideas from
User	The person for whom the product is designed
Component	A part of a larger whole (for example a part of a machine)
Fluency	If you are fluent in something, you do it effortlessly.
LED	Light emitting diode
Conductive	Allows electricity to pass through (copper tape)

Facts about Paper Circuits

- Paper circuits are a good way to learn about circuits and the basics of electricity
- They can be simple (using few components) or complicated (using many different components such as sensors and buzzers along with the necessary components).
- Using copper tape for paper circuits means you can stick it down and is easier to work with, rather than having to tape down wires.