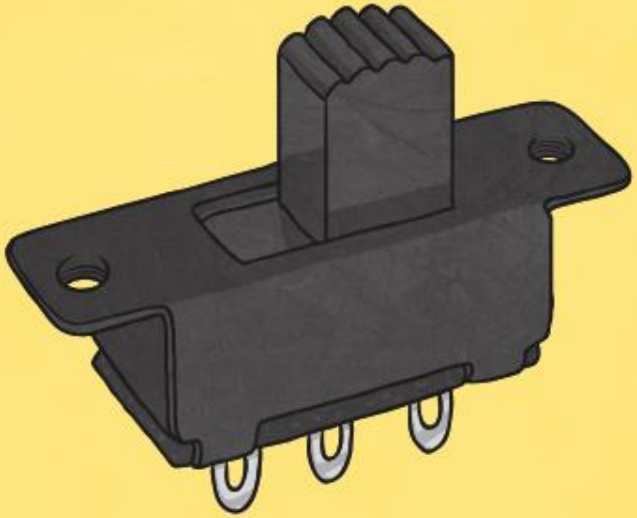
Science

Electricity

Splendid Switches



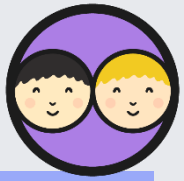
Aim

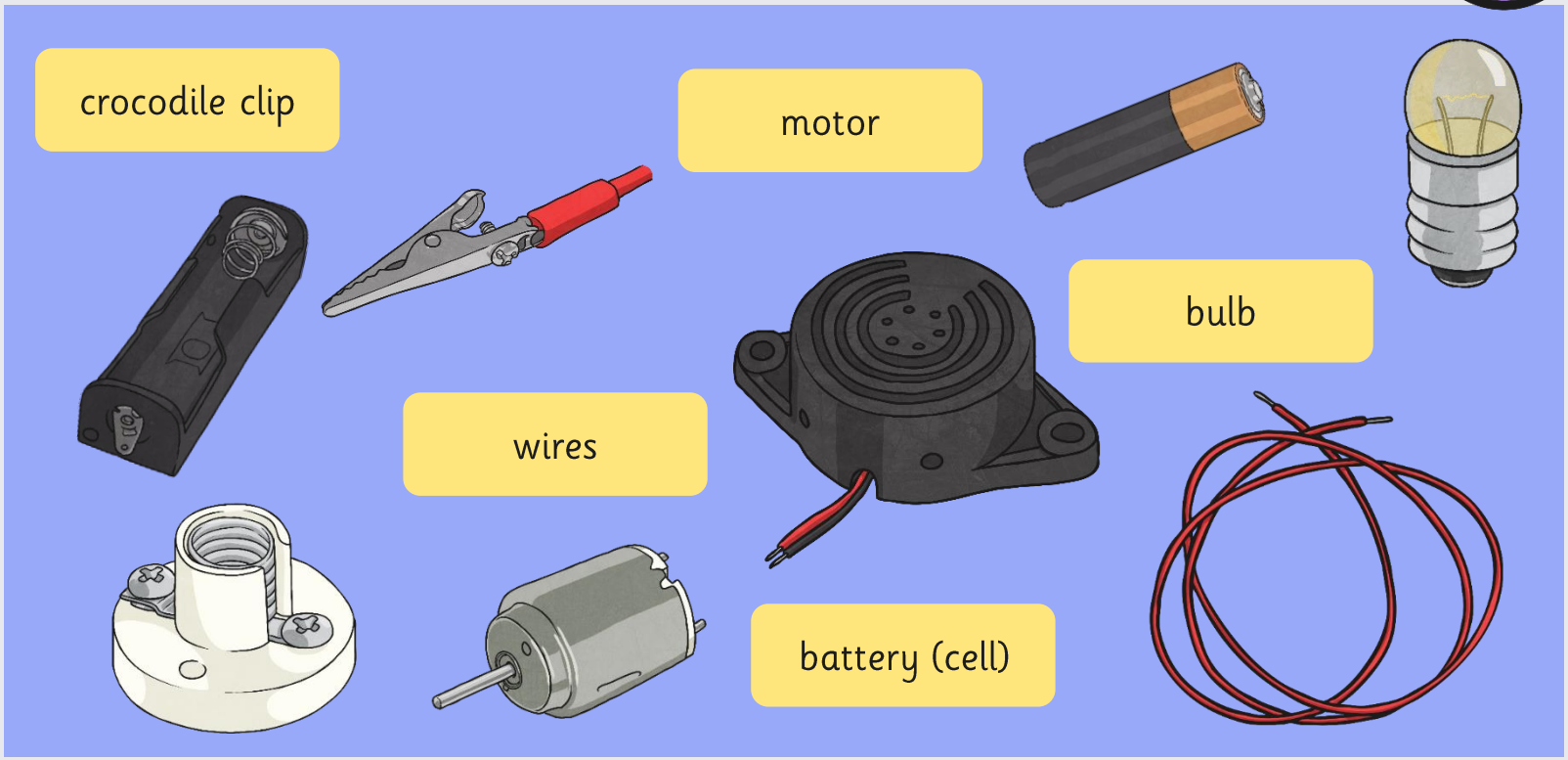
- I can explain how a switch works and why they are needed.

Success Criteria

- I can explain that a switch turns the electric current on and off.
- I can create a circuit containing a switch.

Parts of a Circuit

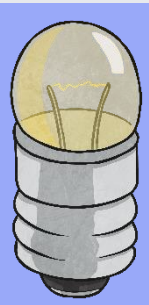


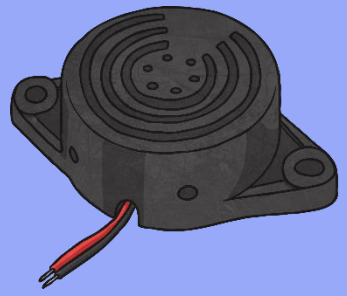


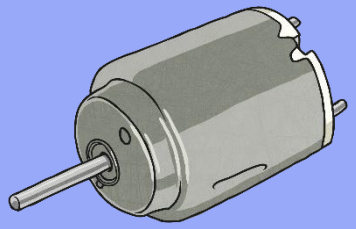
Which cards are new to you? What do those parts do?

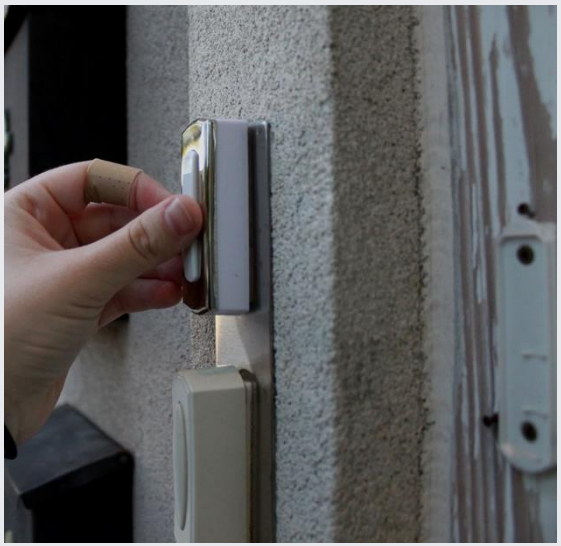
Bulbs, Buzzers and Motors

What examples of circuits which include bulbs/buzzers/motors do you know?

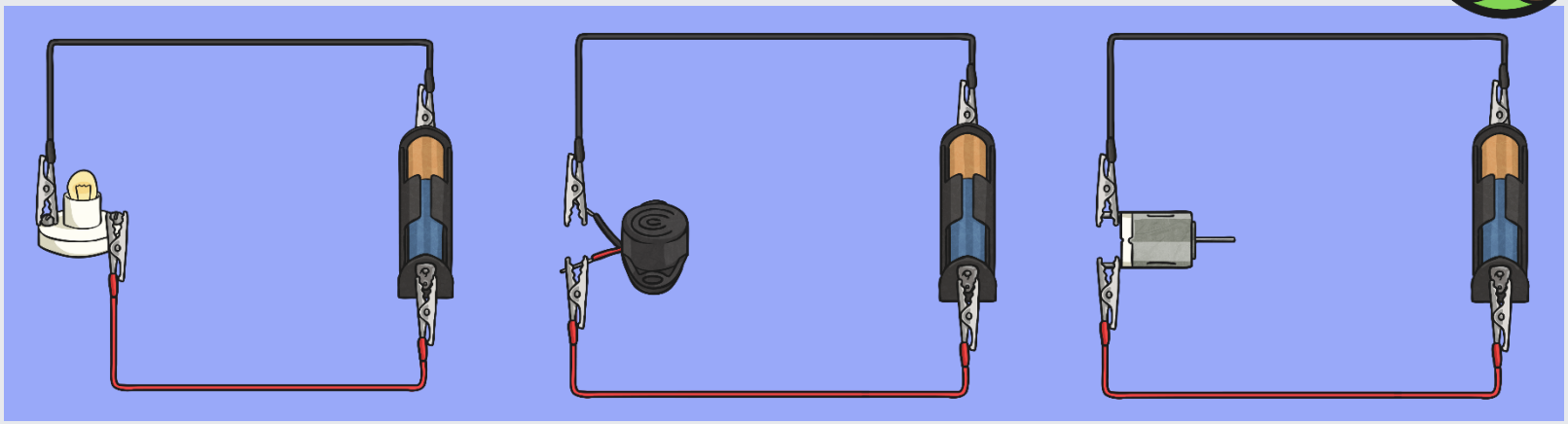




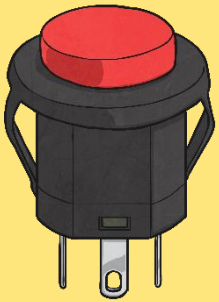


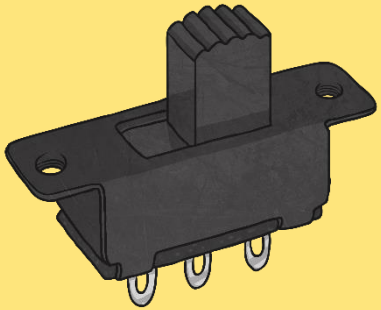


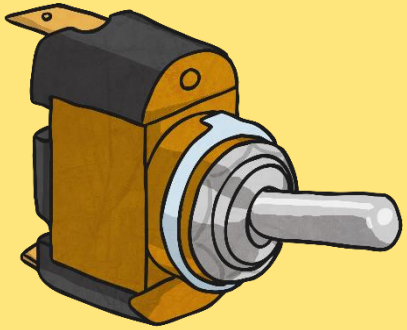
Complete Circuits



Switches!





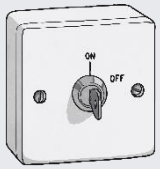


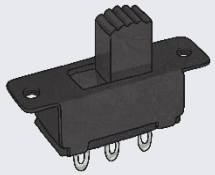
Switches

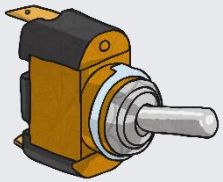
Whole Class

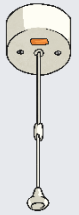
There are a wide variety of switches that can be used.

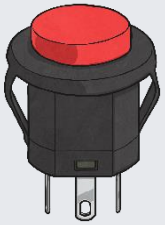
Match the type of switch and its name.

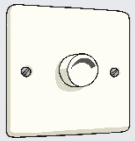


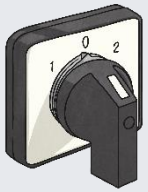








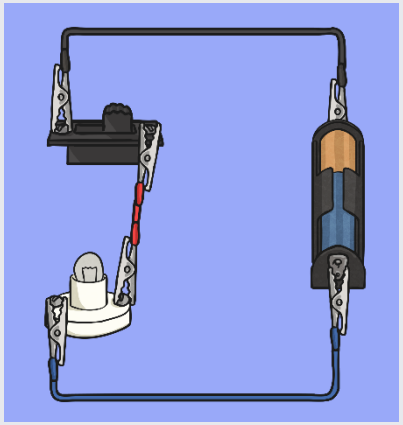




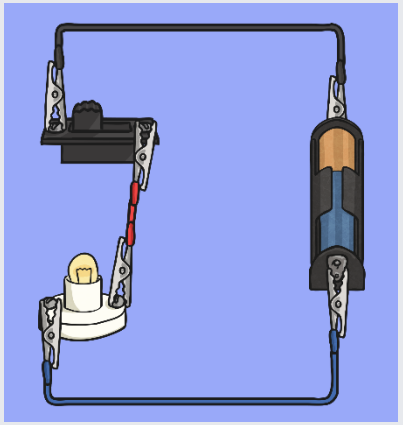
slide switch	push button switch	pull switch	dimmer switch
paddle switch	selector switch	key switch	toggle switch

How Switches Work

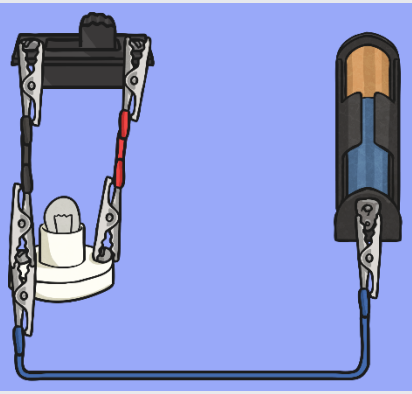
A **switch** 'breaks' a complete circuit on purpose to stop the flow of **electrons** when it is **off.**

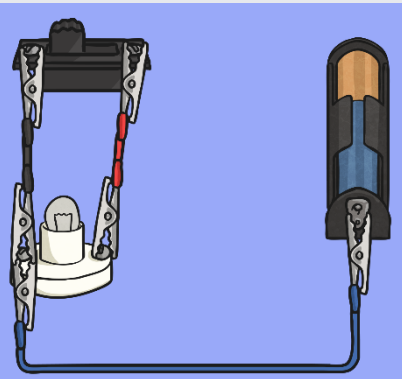


When the **switch** is **on**, the circuit is complete and so the **electrons** are able to flow around the circuit.



A **circuit with a switch** is not the same as an **incomplete circuit.** In an **incomplete circuit**, the **electrons** are unable to flow at all **whether the switch is on or off.**





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