Vocabulary

battery/cell an electrical

energy source bulb a light source powered by electricity

buzzer a source of sound powered by electricity motor a device which uses electricity to produce movement

break in an electrical circuit. this will stop the circuit from working

insulator in an electrical circuit, this will not allow electricity to flow through it conductor in an electrical circuit, this will allow electricity to flow through it switch a break in a circuit which you can control circuit a loop through which electricity can flow



Physics

Science Y4: Electricity



transfers energy. It requires an energy source, such as the chemical reaction that takes place in the cell, and a complete circuit.

A complete circuit is required for electricity to flow and that the cell is the power source for the circuit, which creates the flow of electricity. The flow of electricity (which carries energy) through a bulb motor or buzzer is what makes it work.

Links to prior learning and next steps:

Year 2: identify common appliances that run on electricity. Construct a simple series electrical circuit, identifying and naming its basic parts. Identify whether or not a lamp will light in a simple series circuit.



Michael Faraday (electromagnetism)





Nikola Tesla (engineer)



Benjamin Franklin (inventor)

Links to other subjects: D&T: Morse code machines Maths: Data handling