

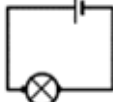
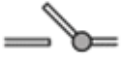
What should I already know?

- Recognise that living things can be grouped in a variety of ways. (Y4 - Living things and their habitats)
- Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment. (Y4 - Living things and their habitats)
- Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. (Y5 - Living things and their habitats)
- Describe the life process of reproduction in some plants and animals. (Y5 - Living things and their habitats)

Scientific Skills:

- Plan a scientific enquiry to answer a question, recognising and controlling variables

Key Vocabulary and Definitions:

Buzzer 	A component in a circuit that makes a sound (buzz)
Circuit 	A series of wires, battery and components joined together
Component 	One item found in a circuit
Motor 	A machine powered by electricity
Switch 	A component in a circuit that can turn a circuit on or off by completing or breaking the circuit
Symbols $\times$ $+$ $-$ $=$ $\div$	Drawings used to represent components in a circuit. For example  is a bulb
Voltage 	Is the size of the 'push' that moves the electricity around a circuit

Teaching Sequence

1. To construct simple series circuits and represent them accurately using recognised scientific symbols.
2. To identify and explain the features of complete and incomplete electrical circuits.
3. To investigate how changing components within a circuit affects its operation.
4. To plan a fair test to investigate the effect of voltage on a circuit component.
5. To carry out a fair test to investigate how voltage affects the brightness of a bulb or the volume of a buzzer.
6. To analyse results, draw conclusions and evaluate the reliability of a voltage investigation.

Key Knowledge

Term 2	Let's Talk (Explorify)	Scientific Knowledge	Scientific skill
Lesson 1	Take Your Turn https://explorify.uk/en/activities/odd-one-out/take-your-turn		
Lesson 2	Who is Haydn Francis? https://explorify.uk/en/activities/who-is/haydn-francis		
Lesson 3	Have You Ever Felt a Spark When Touching Something? https://explorify.uk/en/activities/have-you-ever/felt-an-electric-spark-from-touching-something-or-someone-else		
Lesson 4	Nuclear Energy Scientist https://explorify.uk/en/activities/whats-going-on/nuclear-energy-scientist		
Lesson 5	Roving Robots https://explorify.uk/en/activities/odd-one-out/roving-robots		
Lesson 6			