Project glossary

3-core flexible cable

A flexible cable used in household electrical wiring, containing three copper wires: the live wire, earth wire and neutral wire.

appliance

A piece of electrical equipment used in the home.

battery

A number of cells connected together.

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battery holder

A component that holds one or more cells.

brass

A conductive metal that is used to make the pins in a plug.

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buzzer

A component that makes a sound when part of a complete circuit.

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cartridge fuse

A small safety device inside a plug that breaks the circuit if it becomes overloaded.

cell

A store of chemical energy that can be converted to electrical energy and used as a power source.

circuit

A collection of components connected by wires through which electricity can flow.

coding

A language used to give instructions to a computer.

complete circuit

A circuit that has no gaps in it, so electricity can flow around it.





component

A device used in an electrical circuit.

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conductive

Able to let electricity pass through.

conductor

A material through which an electric current can flow.

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copper

A metal that is used inside electrical wires because it is conductive.

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core

The middle of a wire, usually made from copper.

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crocodile clip

A metal clip that is used to join electric wires to other components.

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earth wire

A green and yellow wire inside a 3-core flexible cable that does not carry an electrical current unless there is a fault. It is a safety wire that helps to prevent electric shocks.

electrical conductivity

The ability of a material to allow an electric current to pass through it.

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electric current

The flow of electric charge through a circuit.

electric shock

A sudden, painful feeling when an electric current flows through the human body.

electricity

A form of energy that provides power and makes appliances work.

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filament

A thin wire inside a light bulb that produces light.





incandescent light bulb

A light bulb that produces light when an electric current flows through a filament, making it heat up and glow.

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incomplete circuit

A circuit that has gaps in it, so electricity cannot flow.

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insulator

A material that does not allow an	electric current to pass through.
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lamp

A component with a bulb and a holder that emits light when part of a complete circuit.

light bulb

An electrical device that produces light.

light-emitting diode (LED)

A device with two legs that emits light when part of a complete circuit.

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live wire

A brown wire inside a 3-core flexible cable that carries an electric current into an appliance from the mains socket.

mains electricity

Electricity generated in power stations and supplied to buildings through power lines.

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material

The substance that things are made from, such as metal, plastic or wood.

micro:bit

A small, programmable computer with an LED light display, buttons and sensors.

motor

A component that creates movement when part of a complete circuit.



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neutral wire

A blue wire inside a 3-core flexible cable that carries the electrical current out of the appliance back into the socket.

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non-conductive

Unable to let electricity pass through.

power station

А	building	or g	roup	of bi	uildings	where	electricity	/ is	produced	
/ \	Sanang	0 8	roup		1101165	WIICIC	cicculot	y 13	produced	٠

programmable

Able to be programmed so that a machine will perform actions automatically or in a particular order.

push-to-break switch

A switch that is normally closed. Pushing the button opens a gap and creates an incomplete circuit.

push-to-make switch

A switch that is normally open. Pushing the button closes a gap and creates a complete circuit.

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pylon

A tall structure that carries power lines from power stations to buildings.

rechargeable

A battery that is able to have its electrical energy restored.

reed switch

An electromagnetic switch used to control the flow of electricity in a circuit. It is operated by a magnet.

resistance

The ability of a conductor to oppose the flow of an electric current.

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rocker switch

A switch that works like a seesaw. When one end is pressed, the other end pops up.





sensor

A dev	or vice that detects changes in the environment.
	s circuit cuit that forms a loop with a single path for an electric current to take.
sourc Wher	
switc A con	
three An ele	e-pin plug ectrical plug with three metal pins that fits into a socket.
toggl A swi ⁻	e switch tch that is activated by a lever.
tungs	

wire

A conductive core coated in insulating plastic that an electric current flows through, connecting other electrical components.





Scientific terms glossary

bar chart

A type of chart that uses blocks or rectangles to show different amounts.

compare

To look at two or more things closely and see what is the same or different.

conclusion

An explanation of what has been found out using data collected.

data

Collected information or facts, including numbers, words, measurements or observations.

diagram

A drawing with labels that show the parts of something.

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equipment

An object or objects that are needed for a particular purpose, such as a data logger or light meter app.

fair test

A test or investigation in which only one variable is changed each time measurements are made.

findings

The information or facts that a person discovers from carrying out an observation, investigation or research.

investigation

An activity that involves a person studying a subject or problem carefully to learn facts or answer a question. An investigation includes planning, doing, recording and reviewing stages.





method

A set of instructions or steps to follow in a specific order to complete a particular task.

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observe

To watch or look at something carefully.

prediction

A statement made by a person where they say what they think will happen in the future, using their knowledge or experiences.

question

Something we ask using the words how, what, where, when, who and why.

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record

To write down data or observations, such as numbers, measurements or words, using lists, tables, charts or labelled diagrams.

research

To study a subject to discover new facts or information.

results

The data collected from an investigation or test.

table

A way of recording data in rows and columns.

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variable

A factor, such as an object or condition, that changes during an investigation.



