

Key Knowledge
Electricity is a type of energy. This energy can be used to power electrical items such as toasters, kettles, cookers, televisions and computer tablets. To be useful, electricity must flow through a circuit.
Electrical energy is caused by electrons (the particles in atoms) moving about to make a current.
The current this is the amount of electricity flowing through the circuit
Some objects conduct electricity; this means they allow electricity to flow through them easily. These are called conductors
Other objects do not allow electricity to flow through them easily these are called insulators .

Interesting Facts
Electricity travels at the speed of light
Electricity can be made from wind, water, the sun and even animal poop
A bolt of lightning can measure up to three million (3,000,000) volts, and it lasts less than one second!
Benjamin Franklin didn't discover electricity, but he did prove that lightning is a form of electrical energy.
Electricity always tries to find the easiest path to the ground.
Thomas Edison invented more than 2,000 new products, including almost everything needed for us to use electricity in our homes: switches, fuses, sockets and meters.

Curriculum Links
<ul style="list-style-type: none"> •Y6 – Electrical structures •DT – Board Game

WOW Activities
Catalyst Science Museum visit Pylon construction activity

Electrical component Symbols

Vocabulary	Definition
Circuit	A system of electrical conductors and components forming an electrical circuit.
Bulb	A glass bulb inserted into a lamp or a socket in a ceiling, which provides light by passing an electric current through a filament.
Switch	A device for making and breaking the connection in an electric circuit.
Wire	A length or quantity of wire used to carry an electric current.
Battery/Cell	A container consisting of one or more cells, in which chemical energy is converted into electricity and used as a source of power .
Complete	Working.
Incomplete	Broken
Conductor	Allows An electric current to flow
Insulator	Does not allow electricity to flow
mains	Electricity supplied to your house from power stations
Component	Part
Appliances	a device or piece of equipment designed to perform a specific task

