



## Subject Specific Vocabulary

<b>electricity</b>	A form of energy. This energy can be used to power electrical appliances. Electrical energy is caused by electrons.
<b>buzzers</b>	A buzzer is an automatic signalling device. They are used as alarms and door bells.
<b>conductors</b>	A conductor is an object or type of material that allows the flow of an electrical current in one or more directions.
<b>circuit</b>	An electrical circuit is a completed path through which an electrical current flows.
<b>cells</b>	An electrical cell is a device that is used to generate electricity, or one that is used to make chemical reactions possible by applying electricity.
<b>switch</b>	A switch is an electrical component that can make or break an electrical circuit.
<b>wire</b>	A long, thin and flexible piece of metal.
<b>appliance</b>	An electrical appliance is a device that uses electricity to perform a function.
<b>insulator</b>	An insulator is a material whose internal electric charges do not flow freely. Plastic, wood, glass and rubber are good electrical insulators.
<b>motor</b>	A motor converts electrical energy into physical movement.
<b>bulb</b>	A device made of rounded glass used to create electric light.

## Electrical symbols

Component	Symbol	Purpose
Cell (Battery)		Provides electrical energy
Power supply		Alternative to using cells
Wire		Allows current to travel
Bulb/light		Converts electrical energy into heat and light
Motor		Converts electrical energy into movement energy
Buzzer		Converts electrical energy into sound energy
Switch		Allows circuit to be opened or closed

## Thomas Edison

Thomas Edison was a great American inventor who came up with a way of making the electric light bulb accessible for homes, industry and outside in the streets.

In his lifetime he came up with over 1,000 new inventions.

Thomas Edison was born in 1847 and died in 1931.

## Key Knowledge about Electricity

- Many household devices and appliances run on electricity. Some plug in to the mains and others run on batteries.
- An electrical circuit consists of a cell or battery connected to components using wires.
- If there is a break in a circuit, a loose connection or a short circuit, the component will not work.
- A switch can be added to the circuit to turn the component on and off.
- Metals are good conductors so they can be used as wires in a circuit.
- Non-metallic solids are insulators except for graphite (pencil lead).