

# Electrical Systems - Torches

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|-----------------|---|
| Battery         | Two or more cells put together to provide electrical energy to power a circuit.   |
| Bulb            | A circuit part, made from glass or plastic, which gives out light when electricity passes through it.   |
| Buzzer          | A circuit part which will make a buzzing noise when electricity is passed through it.   |
| Cell            | A single unit that provides electrical energy to power a circuit.   |
| Conductor       | A material that allows electricity to flow through it. e.g. metal.  |
| Copper          | A reddish metal material that is good at letting heat and electricity flow through it. It is often used to make wires and pipes.  |
| Design criteria | A set of rules to help designers focus their ideas and test the success of them.  |
| Electrical item | Objects that need electricity to work such as hair dryers, toasters and kettles.  |
| Electricity     | A type of energy, that is usually invisible, that can be made or stored and used to make objects work (for example to move things or to heat them up).  |
| Electronic item | Electrical items that have an element of computer processing in them such as mobile phones and laptops.   |
| Insulator       | A material that does not allow electricity to flow through it. e.g. plastic.  |
| Series circuit  | A closed circuit where the current follows one path.  |
| Switch          | A circuit part that you can open or close to allow electricity to flow through or to stop it flowing through. (For example, in a house, an electric light switch lets you turn the lights on or turn the lights off.) |
| Test            | To find out whether something works as it should.   |
| Torch           | A battery-powered electric lamp.  |
| Wire            | A thin piece of copper thread which conducts electricity to connect circuit components together.  |

## Key facts

Many products use batteries!



## Did you know?



Once upon a time, there were no electrical items to use!  
They had not been invented.  
How would life be different for you without electrical items?