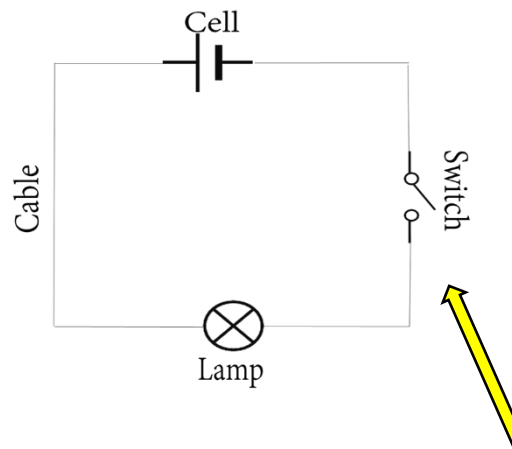


Electricity & Circuits

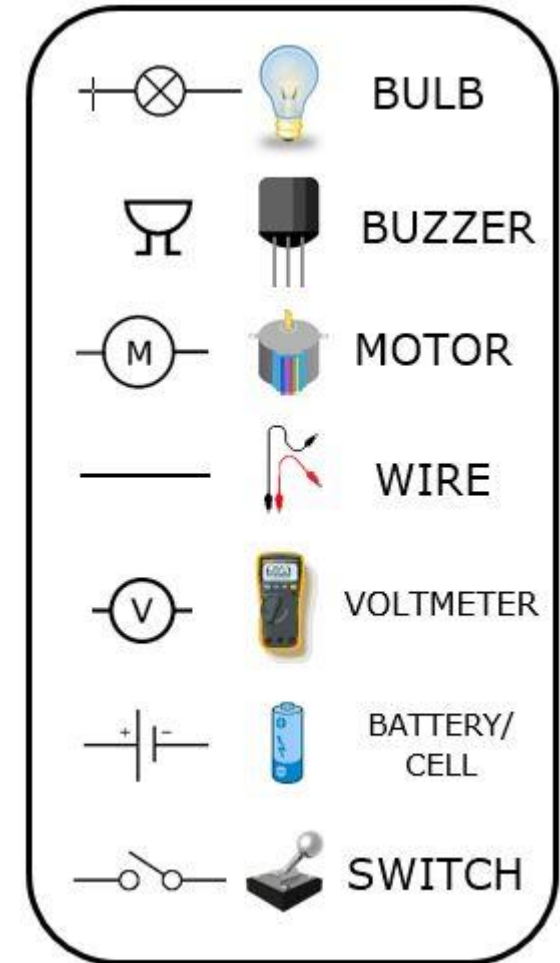
Key Vocabulary	
circuit	A path for transmitting electrical current
component	A general term for any single part of an electrical circuit
wires	A long, thin and flexible piece of metal
battery	Portable stores of chemical energy
motor	An electrical motor changes electrical energy into mechanical movement
bulb	A simple apparatus that converts electric energy into light energy
switch	A component within an electrical Circuit which enables the flow of electricity to be turned on and off
buzzer	A component in a circuit that makes a sound when electricity goes through it
series	A series circuit comprises a path along which the whole current flows through each component
parallel	A parallel circuit comprises branches so that the current divides and only part of it flows through any branch
conductor	Substances that an electric charge can pass through without difficulty
insulator	A material which does not easily allow heat and/or electricity to pass through it
Ampere (amps)	The unit of electric current that we use to quantify the current flowing in a system
voltage (volts)	A measure of how strong the current is in a circuit

In this unit, you will:

- Construct simple and parallel electrical circuits
- Learn the universal symbols for electrical components and use them to design circuits for specific purposes
- Investigate how different components affect the effectiveness of a circuit
- Design a working traffic light



This circuit will not work because the switch is open. A circuit must be complete to work. It must also always have a battery/cell.



Looking for reading suggestions to accompany this topic? *Energy Island* by Allan Drummond; *Cool Circuits & Wicked Wires* by Alison Martineau; *Blackout* by John Rocco; *Goodnight Mr Tom* by Michelle Magorian; *Wildspark* by Vashti Hardy