

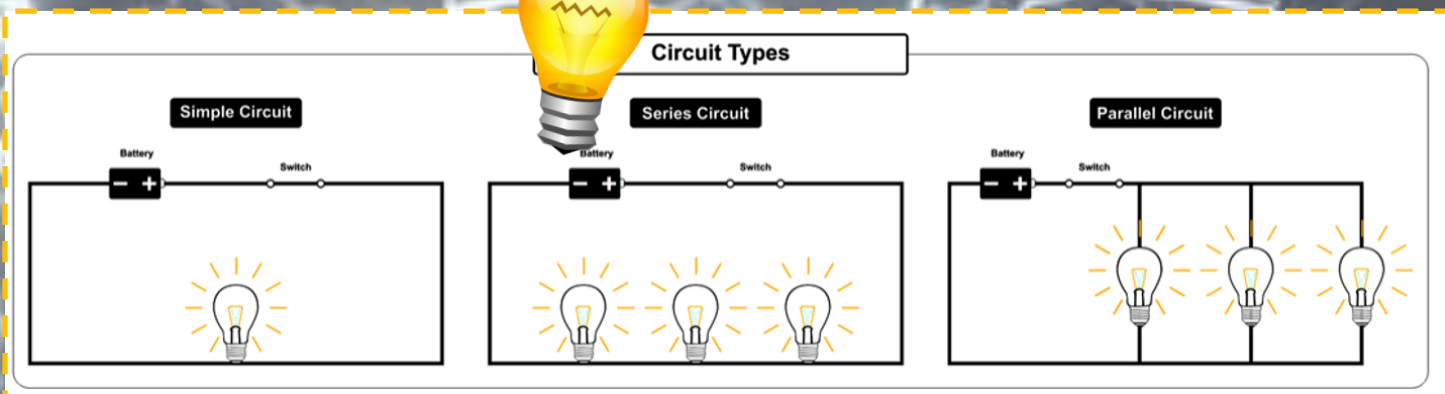
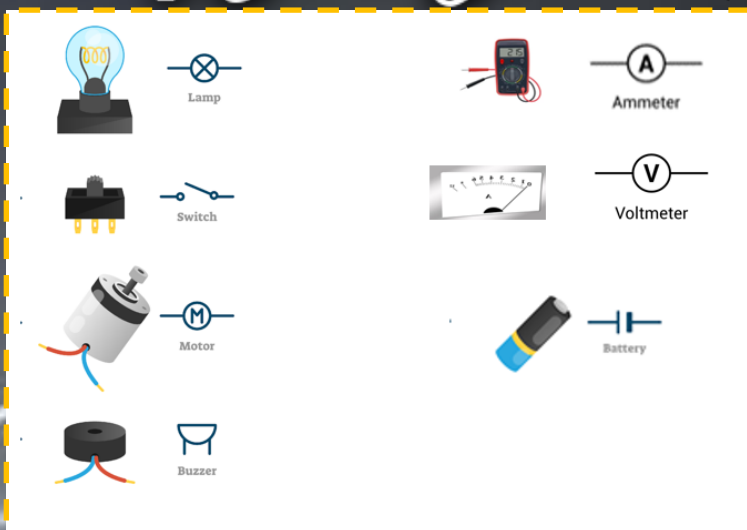


It's Electrifying!



In this unit, I will:

- ◇ work scientifically to design and set up circuits with increasing complexity to answer enquiries.
- ◇ Predict and investigate the outcome of placing various components into an electrical circuit.
- ◇ Identify components from their symbols and definition.
- ◇ Use technology to design circuits and identify problems and solve these.
- ◇ Design and create traffic lights and games using circuits.



Working Scientifically



Rocket Words

	circuit	a complete path which allows electricity to flow
	battery	a source of energy in an electrical circuit
	electricity	a form of energy
	resistor	a component that reduces electric current flow
	variable resistor	a component which varies the amount of electric current flow
	dimmer switch	a light control which allows you to change the brightness of a light
	output	the amount of something produced (e.g., brightness of a bulb)
	systematically	working in a methodical way
	synchronised	operating at the same time or rate
	signal	an electrical impulse transmitted or received
	conductor	materials which allow electricity to flow through them easily
	insulator	materials that do not let electricity pass through them easily

Did you know...?

Electricity travels at the speed of light. That's more than 186,000 miles per second!

A bolt of lightning can measure up to 3,000,000 volts, and it lasts less than one second!