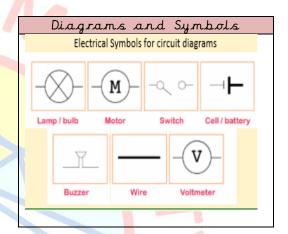
Science Focus Electricity Year 6 Autumn 1

	Key Knowledge
What is	Electricity is created by
electricity?	generators which can be
	powered by gas, coal, oil, wind
	or solar. " The electrical energy
	can be converted into other
	types of energy such as light,
	heat, movement or sound.
	" Electricity is dangerous, so
	be careful when using
A .	electrical appliances.
A series	Electricity can flow through
circuit	the components in a complete
	electrical circuit.
	n A circuit always needs a
	power source, such as a
	battery, with wires connected
	to both the positive (+) and
	regative (-) ends. (A battery is
	made from a collection of cells
la de la companya de	connected together).
	A circuit can also contain
	other electrical components,
	such as bulbs, buzzers or
	motors, which allow electricity
	to pass through.
(1.1)	" Electricity will only travel
(Leave-	around a circuit that is
	complete. That means it has no
14/1 / 1	gaps
What is a	" You can use a switch in a
switch?	circuit to create a gap in a
	circuit. This can be used to
	switch it on and off.
	a When a switch is open (off),
	there is a gap in the circuit.
	Electricity cannot travel
	around the circuit.
	" When a switch is closed (on),
	it makes the circuit complete.
	Electricity can travel around
	the circuit.
Increasing	" The more cells that are used
the	in a circuit, the brighter the
brightness of	bulb or louder the buzzer.
	" If one cell is used, the
a bulb or the	1
volume of a	higher its voltage, the more
buzzez	powerful the cell is.

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Key Vocabulary	
Generator	A machine that
	makes electrical
	energy
Component	A part of something
Voltage	Is a measure of the
·	difference in
	electrical energy
	between two parts of
	a circuit



Greater Depth Thinking

Be familiar with, and use, technical terminology accurately and precisely. Build up an extended specialist vocabulary.

Make their thinking clear, both to themselves and others

Possible Experiences

Design and make a set of traffic lights or burglar alarm.

Identify the effects of changing a component in a circuit.