Key vocabulary		
circuit	A complete path that an electric	
	current can flow around. It flows from	
	the battery, through wires and	
	devices before returning to the	
	battery. If the circuit is not complete	
	the electric current cannot flow.	
circuit	A symbol used to represent various	
symbol	electronic components or functions in	
	a diagram of a circuit.	
circuit	A visual representation of an electrical	
diagram	circuit using symbols to represent the	
	electrical components.	
cell	A single electrical energy source.	
battery	A device consisting of one or more	
	cells.	
switch	An electrical component that can	
	make or break an electrical circuit.	
	When a switch is open (off), there is a	
	gap in the circuit and electricity	
	cannot flow around the circuit.	
voltage	Volts are a measure of the energy of a	
	flow of electricity. Mains electricity	
	carries a voltage of 210-240 volts. A	
	typical cell in school has 1.5 volts.	



ECM

This breaks

the circuit so it

is not complete and

electricity

cannot flow.

The bulb will

turn off.

## **Electricity – Year 6**

Significant scientists			
Nicholas Tesla	Nicholas Tesla was a Serbian-		
(1856-1943)	American engineer and		
A COMPANY	physicist. He invented the first		
	alternating current (AC) motor		
5	and developed AC generation		
	and transmission technology.		
	He worked for Thomas Edison		
	when he first moved to New		
and the second of the	York.		
Peter	Peter Rawlinson is a British		

Peter Rawlinson

Peter Rawlinson is a British engineer based in California. He is working on the development of electric vehicles, providing clear vision for a next-generation product.

## Circuit symbols





Adding more bulbs to a circuit will make each bulb less bright.



If we add a motor into a circuit with a single bulb, the bulb will be less bright.

If we then add more motors to the circuit, each motor will spin more slowly.

Information relating to 'famous scientists' adapted from work by Alex Sinclair & Amy Strachan of St Mary's University