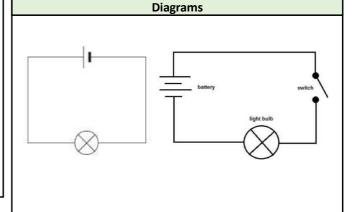
Topic: Electricity		Year	<mark>:6</mark>	Strand: Physics		
What should I already know?			Vocabulary			
Electricity is a form of energy that can be carried by wires and			ammeter	measures the current in a circuit		
 Electricity is a form of energy that can be carried by wires and is used for heating and lighting, and to provide power for devices. Sources of light and sound may need electricity to work. Where electricity cones from Which appliances need electricity What a circuit is, the components of a circuit and how it works. What electrical conductors and insulators are. 			appliances	a device or machine in your home that you us to do a job such as cleaning or cooking. Appliances are often electrical .		
			battery	small devices that provide the power for electrical items such as torches		
			bulb	the glass part of an electric lamp, which gives out light when electricity passes through it.		
			buzzer	an electrical device that is used to make a buzzing sound		
 What happens when a switch 	is added to a circuit.		cell	a synonym for battery		
What forces and resistance are.			circuit	a complete route which an electric current car flow around		
Circuit	Symbols		component	the parts that something is made of		
Symbol	Compone	ent	conductor	a substance that heat or electricity can pass through or along		
			current	a flow of electricity through a wire or circuit		
	ammete	device		an object that has been invented for a particular purpose		
	battery bulb		electricity	a form of energy that can be carried by wires and in used for heating and lighting, and to provide power for devices		
$-\otimes$			energy	the power from sources such as electricity makes machines work or provides heat		
\bigtriangledown	buzzer		fuel	a substance such as coal, oil, or petrol that is burned to provide heat or power		
			generate	cause it to begin and develop		
			insulator	a non- conductor of electricity or heat		
	cell		mains	where the supply of water, electricity , or ga enters a building		
—(M)—	motor	r	motor	motor a device that uses electricity or fuel to prod movement		
	resisto	or	power	Power is energy , especially electricity , that is obtained in large quantities from a fuel source and used to operate lights, heating, and machinery.		
\neg	switch (op	pen)	resistance a force which slows down a moving object or vehicle			
0	switch (clo	osed)	resistor	a part of an electric circuit that provides resistance to some of the current		
			source	where something comes from		
Investigate! Match circuit symbols to their meanings and their words. 		vords.	switch	a small control for an electrical device which you use to turn the device on or off		
Predict, then investigate what happens when more batteries			voltage	the force of an electric current as measured in volts		
are added to a circuit. Explain why this happens.				a long thin piece of metal that is used to faste		

wires

- Predict, then investigate what happens when more bulbs, motors are added to a circuit. Explain why this happens.
- Systematically identify the effect of changing one component at a time in a circuit.
- Use **circuit** symbols when representing a simple **circuit** in a diagram.
- Design and make a set of traffic lights, a burglar alarm or some other useful circuit.
- Investigate what happens when the **voltage** of the battery changes.
- Investigate what happens when the length of the wires changes.
- Investigate what happens when you add a **resistor** to a **circuit**.
- Use ammeters to measure the current in a circuit.



things or to carry electric current

Question 1: Write the name for the component that each of these symbols represent.	Start of unit:	End of unit:	Question 4: Explain what will happen if another bulb is added to a working circuit.	Start of unit:	End of unit:
— <u> </u> +					
$-\otimes$					
\square					
			Question 5: Shorter wires will make	Start of	End of
—(M)—			bulbs brighter. True or False?	unit:	unit:
			false		
~				l	
0			Question 6: Explain what a conductor will do when added to a circuit.	Start of unit:	End of unit:
Question 2: Which of these circuits light?	s will Start of unit:	End of unit:			
└┥⊦╌┤┍┙			Question 7: A circuit will not work if (tick three):	Start of unit:	End of unit:
			there is no battery		
			the switch is off		
			there is a break in the circuit		
Question 3: Explain what will happ another battery is added to a circu		End of unit:	there is no switch		
with a bulb.		unit.			
			Question 8: What is the function of an ammeter in a circuit?	Start of unit:	End of unit:
			measures the length of the wires in a circuit		
			measures the current in a circuit		
			measures how heavy the components are		

Question 8: Imagine you only have this equipment. Draw a circuit using circuit symbols featuring this equipment. 1 switch 3 cells (batteries) 1 bulb	Start of unit:	End of unit:	
Question 9: Look at this circuit. The buzzer is currently not very loud. What could you do to make it louder?	Start of unit:	End of unit:	
	Staft or unit.		