Oughterside Foundation School - Science							
Topic: Electricity Year		Year:	B Strand: Physics				
What should I	already know?			Vocabulary			
 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. 			ammeter appliances	measures the current in a circuit a device or machine in your home that you use to do a job such as cleaning or cooking.			
 Sources of light and sound may need electricity to work. Where electricity cones from 			battery	Appliances are often electrical. small devices that provide the power for electrical items such as torches			
 Which appliances need electricity What a circuit is, the components of a circuit and how it 			bulb	the glass part of an electric lamp, which gives out light when electricity passes through it.			
works.What electrical conductors and insulators are.			buzzer	an electrical device that is used to make a buzzing sound			
 What happens when a switch What forces and resistance and 			cell circuit	a synonym for battery a complete route which an electric current can			
Circuit	Suma ha la			flow around			
	Symbols		component	the parts that something is made of a substance that heat or electricity can pass			
Symbol	ol Component		conductor current	through or along a flow of electricity through a wire or circuit			
A)	—(A) ammeter		device	an object that has been invented for a			
─ ┤ ⊦┤┝─	battery		electricity	particular purpose 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 that makes machines work or provides heat			
buzze			fuel	a substance such as coal, oil, or petrol that is burned to provide heat or power			
· · ·			generate insulator	cause it to begin and develop a non- conductor of electricity or heat			
cell			mains	where the supply of water, electricity , or gas enters a building			
—(M)—	—(M) motor		motor	a device that uses electricity or fuel to produce movement			
	- resistor		power	Power is energy , especially electricity , that is obtained in large quantities from a fuel source and used to operate lights, heating, and machinery.			
	switch (op	en)	resistance	machinery. a force which slows down a moving object or vehicle			
	switch (clos	sed)	resistor	a part of an electric circuit that provides resistance to some of the current			
	• . •		source	where something comes from			
Match circuit symbols to their	-	ords.	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 are added to a circuit. Explain why this happens.		batteries	voltage	the force of an electric current as measured in volts			
 Predict, then investigate what happens when more bulbs, motors are added to a circuit. Explain why this happens. 			wires	a long thin piece of metal that is used to fasten things or to carry electric current			
 Systematically identify the effect of changing one component 			Diagrams				
at a time in a circuit.Use circuit symbols when representing a simple circuit in a							
 Ose 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 				battery switch			
changes.Investigate what happens when the length of the wires changes.							
 Investigate what happens whe Use ammeters to measure the 							
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Question 1: Write the name for the component that each of these symbols represent.	Start	of unit:	Er	nd of unit:			Explain what will happen if b is added to a working	Start of unit:	End of unit:
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\square									
									
							Shorter wires will make ter. True or False?	Start of unit:	End of unit:
(M)						true			
						false			
O							Explain what a conductor nadded to a circuit.	Start of unit:	End of unit:
Question 2: Which of these circuit light?	s will	Start of unit:		End of unit:					
						Question 7: (tick three):	A circuit will not work if	Start of unit:	End of unit:
						there is no	battery		
						the switch i	s off		
						there is a b	reak in the circuit		
Question 3: Explain what will happ another battery is added to a circu with a bulb.		Start of unit:		End of unit:		there is no	switch		
						Question 8: ammeter in	What is the function of an a circuit?	Start of unit:	End of unit:
						measures tl circuit	he length of the wires in a		
						measures t	he current in a circuit		
						measures h component	ow heavy the s are		

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Question 8: Imagine you only have this equipment. Draw a circuit using circuit symbols featuring this equipment 1 switch 3 cells (batteries) 1 b	vires	Start of unit:	End of unit:		
Question 9: Look at this circuit. The buzzer is currently nor to make it louder?	t verv loud. What could you	do 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: