Brentry Primary School - Science



Topic: Electricity Year: 6 Strand: Physics

What should I already know?

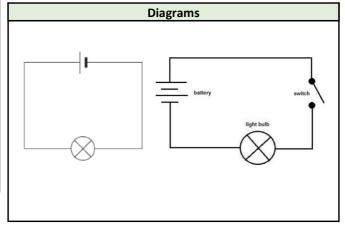
- Electricity is a form of energy that can be carried by wires and is used for heating and lighting, and to provide power for devices.
- Sources of light and sound may need electricity to work.
- Where **electricity** cones from
- Which appliances need electricity
- What a circuit is, the components of a circuit and how it works.
- What electrical conductors and insulators are.
- What happens when a **switch** is added to a circuit.
- What forces and resistance are.

Circuit Symbols			
Symbol	Component		
—(A)—	ammeter		
├ ├	battery		
-	bulb		
	buzzer		
	cell		
- (M	motor		
	resistor		
	switch (open)		
> (switch (closed)		

Investigate!

- Match circuit symbols to their meanings and their words.
- Predict, then investigate what happens when more batteries are added to a circuit. Explain why this happens.
- 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.

ammeter measures the current in a device or machine in y to do a job such as clear Appliances are often electrical items such as electrical device that buzzing sound cell a synonym for battery a complete route which flow around component the parts that something a substance that heat or through or along current a flow of electricity through or along and in used for heating a provide power for device the power from sources makes machines work of a substance such as coal burned to provide heat of the power for device and in used for provide heat of the power for device the power for device makes machines work of the power for provide heat of the power for device the power for device makes machines work of the power for device the power for device power for device makes machines work of the power for provide heat of the power for device the power for device p	our home that you use
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electricity and in used for heating a provide power for device the power from sources makes machines work o a substance such as coal	ough a wire or circuit
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makes machines work o	and lighting, and to
	,
generate cause it to begin and de	velop
insulator a non- conductor of elec	
mains where the supply of wat enters a building	er, electricity , or gas
motor a device that uses electron movement	r icity or fuel to produce
power senergy, especial obtained in large quantial and used to operate light machinery.	ties from a fuel source
resistance a force which slows dow vehicle	n a moving object or
resistor a part of an electric circu resistance to some of th	
source where something comes	s from
switch a small control for an el e you use to turn the devi	
voltage the force of an electric could volts	current as measured in
wires a long thin piece of meta things or to carry electri	al that is used to fasten



Brentry Primary School - Science Topic: Electricity Year: 6 **Strand: Physics** Question 4: Explain what will happen if Question 1: Write the name for Start of End of another bulb is added to a working End of unit: the component that each of Start of unit: unit: unit: circuit. these symbols represent. Question 5: Shorter wires will make Start of End of bulbs brighter. True or False? unit: unit: false Question 6: Explain what a conductor Start of End of will do when added to a circuit. unit: unit: Question 2: Which of these circuits will End of Start of light? unit: unit: Question 7: A circuit will not work if.... Start of End of (tick three): unit: unit: there is no battery the switch is off there is a break in the circuit Question 3: Explain what will happen if there is no switch Start of End of another battery is added to a circuit unit: unit: with a bulb. Question 8: What is the function of an Start of End of ammeter in a circuit? unit: unit: measures the length of the wires in a circuit measures the current in a circuit measures how heavy the components are

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3 cells (batteries)	nent. wires bulb	Start of unit:	End of unit:
Question 9: Look at this circuit. The buzzer is currently no to make it louder?	ot very loud. What could you	start of unit:	End of unit:
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