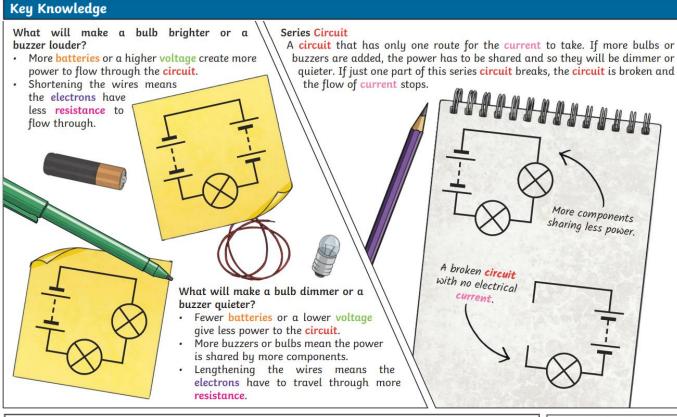
Hyde Park Junior School - Science

Topic: Electricity Year: 6 Strand: Physics

Enquiry Question: What are the requirements of designing and improving circuits?



Key Vocabulary				
circuit	A path that an electrical current can flow around.			
symbol	A visual picture that stands for something else.			
cell/battery	A device that stores chemical energy until it is needed. A cell is a single unit. A battery is a collection of cells.			
current	The flow of electrons, measured in amps.			
amps	How electric current is measured.			
voltage	The force that makes the electric current move through the wires. The greater the voltage, the more current will flow.			
resistance	The difficulty that the electric current has when flowing around a circuit.			
electrons	Very small particles that travel around an electrical circuit.			

To work safely with circuit components in the classroom:

- None of the equipment needs to use mains power, so do not put any of it in or near plugs.
- Report any damaged or broken equipment to your teacher. Do not use it.

- Only use equipment as instructed.
- · Connect equipment correctly.
- Disconnect equipment after use and put it away neatly.

Series Circuit

A circuit where the components are connected in a loop.

Electricity flows through each component in a single pathway.





Electricity can flow. The components will work.

Incomplete Circuit

There is a break in the circuit that prevents the electricity from flowing. The components will not work.



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Question 1: Name three things that are needed to make a bulb light. Item 1	Start of unit:	of unit: End of unit:				on 2: A bulb can be orighter by adding oulbs?	Start c	f unit:	End of unit:	
Item 2										
Item 3					False					
Question 3: How do wemake a bulb brighter?make a buzzer louder?	Start of unit:		End of	unit:		Question 4: Draw a circuit diagram of a simple circuit with a cell, bulb and a switch in its closed position.	Start	of unit:	End of unit:	
Question 5: Name these co	omponents	Start of ur	it:	End of un	it:	Name its function				
-0'0-										