

Knowledge Organiser

Year Group	Subject	Topic
6	Science	Electricity

The Big Picture

In Year 6, children will be guided through this practical unit by understanding how electrical circuits work. By understanding how much electricity flows through the circuit, children will understand what causes circuit breaks and how they can show them by drawing diagrams. Once they have obtained this knowledge, they will understand circuit variations, such as how to make a bulb brighter or dimmer depending on the number of cells or batteries.

The next step is for them to construct an experiment on constructing circuits depending on the different amounts of voltage used by planning, investigating and evaluating.

Enquiry Questions

Step 1: Construct and draw series circuits using symbols
Step 3: Variations within circuits
Step 5: Investigate - voltage experiment
Step 6: Evaluate - voltage experiment

Koy Vocabulary		
Key Vocabulary		
	A path that an electrical current	
circuit	can flow around.	
	A visual picture that stands for	
symbol	something else.	
	A device that stores energy as a	
	chemical until it is needed. A cell	
	is a single unit. A battery is a	
cell/battery	collection of cells.	
0011110111	The flow of electrons,	
	*	
current	measuredin amps.	
	How electric current is	
amps	measured.	
	The force that makes the electric	
	current move through the wires.	
	The greater the voltage, the	
voltage	more current will flow.	
	The difficulty that the electric	
	current has when flowing around	
rociotanos	S S	
resistance	a circuit.	
	Very small particles that travel	
electrons	around an electrical circuit.	



