

Barnwood C of E Primary School Spring Term Year 4 2026

Electrify! - Knowledge Organiser

Tricky Vocabulary		Sticky Knowledge	<u>WOW Experiences and Events...</u> '24 Shockingly Fun' electricity experiments To build simple circuits and problem solve to fix broken circuits. Planning, designing and making a functioning lighthouse using junk modelling, Dark den experience. Marbling and printing inspired by Kandinsky.
Electricity	A supply of electric current to a house or other building for heating, lighting or powering appliances.	I can identify common appliances that run on electricity.	
Switch	A device for making and breaking the connection in an electric circuit.	I can construct a simple series electrical circuit, identifying and naming basic parts, including cells, wires, bulbs, switches and buzzers.	
Buzzer	An electrical device that makes a buzzing noise.		
Electrical circuit	A system of conductors and components forming an electrical loop.	I can identify whether or not a lamp will light in a simple series circuit and associate this with whether the lamp is part of a complete loop with a battery.	
Wire	A length or quantity of wires used to carry an electric current.		
Insulator	A device that does not readily allow the passage of heat and sound.	I can recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.	
Conductor	A material or device that transmits electricity.	I can recognise some common conductors and insulators, identifying metals as good conductors.	
Batteries	A container consisting of one or more cells, in which chemical energy is converted into a source of electricity and used as a power.		
Transformer	A device for increasing or decreasing voltage.	I can plan, design and build a lighthouse with a functioning circuit and bulb.	
Volt	A unit of electric force that pushes an electric current along.		
Bulb	A device used to convert electricity into light.		
Cell	A device used to generate a current.		
Appliances	An electrical device that runs electricity.		
Current	A flow of electrical movement.	<u>Focus texts</u>	

