

KNOWLEDGE ORGANISER



CIRCUITS	SCIENCE	UKS2
Cross curricular links	Key skills	Key Vocabulary/definitions
DT – children learn the importance of the electrical components of different objects they design	 Children will learn how the electrical current is pushed round the circuit by the cell. They will experiment with the number and voltage of the cells used in a circuit and observe the results. They explore different conductors and insulators and learn about resistance. They will use this knowledge to explain variations in the brightness of lamps and the loudness of buzzers. 	Circuit - a complete circular path that electricity flows through. A simple circuit consists of a current source, conductors and a load. Component - electronic components are the parts used in devices that construct electronic circuits Voltage - describes the "pressure" that pushes electricity.
Pictures/photos relevant to topic	 They will also have the opportunity to record their 	Parallel - a parallel circuit is an electrical circuit in which the
Electrical components A circuit will always have a battery (cell) as well as other components. Components such as builbs, buzzers, switches and motors, need a battery in order to work.	findings using diagrams with the appropriate symbols and explain their ideas using scientific language.	components are connected in parallel branches, so that the current can flow through each branch independently.
Battery Wire Bulb Buzzer M Switch (off) Switch (on) Light bulb Resistor Switch	 Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs; 	
	Key facts	
Learning about electricity - https://www.bbc.co.uk/bitesize/topics/zj9r2p#zfcccmn Quiz to identify the correct electrical component symbols - https://www.bbc.co.uk/bitesize/topics/zj44jxs/articles/zgryn9q		
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