



ELECTRICITY (PHYSICS)

Statements in red are linked from other topics

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Progression in Scientific knowledge, concepts & skills	EYFS (Early Learning Goals)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	K53
Concepts Cause and effect Energy Working Scientifically	Children know about similarities and difference in relation to places, objects, materials and living things. Children talk about features of their own immediate environment and how environments might vary from one another				Identify common appliances that run on electricity Construct a simple series electrical circuit and name its basic parts Identify whether a lamp will light based on whether the circuit is a complete loop Recognise the function of a switch in a		Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in a circuit Compare and give reasons for how components function (brightness of bulbs, loudness of buzzers) Know and use recognised circuit symbols when representing a simple circuit in a diagram	Electric current, measured in amperes, in circuits, series and parallel circuits, currents add where branches meet and current as flow of charge Potential difference, measured in volts, battery and bulb ratings; resistance, measured in ohms, as the ratio of



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	Children make observations of animals and plants and explain why some things occur and talk about changes		Identify common conductors and insulators		difference (p.d.) to current Differences in resistance between conducting and insulating components (quantitative) Static electricity
Possible learning questions			Could we cope without electricity at home?	Could we live without electricity? How has electricity changed the world?	•