



WENSLEY FOLD CE PRIMARY ACADEMY SCIENCE SCHEME OF WORK



PROGRESSION THROUGH TOPICS

PHYSICS – ELECTRICITY

Early Learning Goal

Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur and talk about changes.

Year 2	Year 4	Year 6
- I can identify and name appliances that require electricity to function. - I can construct a series circuit. - I can identify and name the components in a series circuit (including cells, wires, bulbs, switches and buzzers). - I can draw a circuit diagram. - I can predict and test whether a lamp will light within a circuit. - I can describe the function of a switch in a circuit.	- I can describe the difference between a conductor and insulators; giving examples of each. - I can explain how the number & voltage of cells in a circuit links to the brightness of a lamp or the volume of a buzzer. - I can compare and give reasons for why components work and do not work in a circuit. - I can draw circuit diagrams using correct symbols	Revision of all previous work 

KS3

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 potential difference (p.d.) to current. Differences in resistance between conducting and insulating components (quantitative). Static electricity.

*National Curriculum states Electricity to be covered in Year 4 and Year 6.

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