

Ashtree Primary School and Nursery Unit Progression Plan for Science

Electricity

Year Group	Unit	Key Knowledge	Key Vocabulary
Nursery	Electricity	Development Matters 2020 – 3 and 4 year olds Understanding the World <ul style="list-style-type: none"> Explore how things work. 	<u>Model and encourage children to use vocabulary such as:</u> battery, plug, socket, electricity, wire, sound, light, move <u>Expose children to supplementary vocabulary such as:</u> mains electricity, device, appliance, electrical
Reception		Not covered in this year group	
Year 1		Not covered in this year group	
Year 2		Not covered in this year group	
Year 3		Not covered in this year group	
Year 4	Electricity	<ul style="list-style-type: none"> identify mains operated and battery operated devices, describe some of the dangers associated with mains electricity name some components of a simple electrical circuit, know that batteries are sources of electricity – battery, cell, wires, switch, crocodile clips, buzzer, bulb, circuit, recognise that for a circuit to work it must be complete, construct a working circuit, make drawings of simple working circuits (pictorial only circuit symbols covered in year 6) – symbols make circuits from drawings provided, describe the effect of making and breaking one of the contacts on a circuit, explain why some circuits work and others do not identify materials as conductors or insulators, construct simple circuits and use them to test whether materials are electrical conductors or insulators describe how switches work, construct a home-made switch 	battery, cell, wires, switch, crocodile clips, buzzer, bulb, circuit, symbols, insulator, conductor, plastic, metal, appliance, component
Year 5		Not covered in this year group	
Year 6	Electricity	<ul style="list-style-type: none"> know that the ‘amount’ of electricity (voltage) depends on the number of batteries construct some working series circuits with specified components recognise conventional circuit symbols draw circuit diagrams and construct circuits from diagrams using conventional symbols explore how to change the brightness of bulbs and the volume of a buzzer describe ways of changing the brightness of a bulb in a circuit or the volume of a buzzer, compare different circuits (e.g. for brightness of bulb), recall that the amount of electricity is measured in voltage 	Voltage, current, series, component, circuit, conductor, positive/negative terminal, complete circuit, battery, cell