|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Science Curriculum Coverage and Progression – Electricity** | | | | | | | | |
| **NC** | **Nursery** | **Reception** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| **Electricity** | . | . |  |  |  | * •identify common appliances that run on electricity; * •construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers; * •identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery; * •recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit;   •recognise some common conductors and insulators, and associate metals with being good conductors. |  | •associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit;  •compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches;  •use recognised symbols when representing a simple circuit in a diagram. |
| **Vocabulary Progression** |  |  |  |  |  | •Electricity: mains-powered, battery-powered, mains electricity, plug, appliances, devices.  •Circuits: circuit, simple series circuit, complete circuit, incomplete circuit.  •Circuit parts: bulb, cell, wire, buzzer, switch, motor, battery.  •Materials: electrical conductor, electrical insulator.  •Other: safety.  Previously introduced vocabulary: names of materials. |  | * Flow and measure of electricity: **voltage, amps, resistance, electrons**, volts (V), **current.** * Circuits**: symbol,** circuit diagram, component, function, filament. * Variations: dimmer, brighter, louder, quieter. * Types of electricity: natural electricity, human-made electricity, solar panels, power station. * Other: positive, negative. |