Mountbatten Primary School
Curriculum knowledge

Topic: Electricity (Science) Term: Autumn 2 Year Group: 6

| NC OBJECTIVES | KEY KNOWLEDGE AND VOCABULARY |
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| • associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit<br>• 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<br>• Use recognised symbols when representing a simple circuit in a diagram.<br><u>Working Scientifically</u><br>• planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary<br>• taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate<br>• recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs<br>• using test results to make predictions to set up further comparative and fair tests<br>• reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations<br>• Identifying scientific evidence that has been used to support or refute ideas or arguments. | • Know what the main **components** of a **circuit** are<br>• Know the difference between a **series and parallel circuit**<br>• Know how to **construct** a working circuit<br>• Know how to **accurately** draw a circuit<br>• Know ways in which the brightness of a **bulb** or speed of a **motor** can be changed<br>• Know that the **brightness** of a bulb or speed of a motor depends on how much power is supplied to each component<br>• Know that bulbs and motors will blow out if too high a **voltage** is used<br>• Know and use **conventional symbols** for circuits<br>• Know how changing the wire in a circuit can affect the brightness of a bulb<br>• Know how wires of different lengths, thicknesses and material can affect the brightness of a bulb<br>• Know how to identify and fix a circuit that is not working |