

**Year 6 – Electricity**

**Knowledge**

- To know the number of cells and voltage in the circuit and how it is associated with the brightness of a lamp/bulb or the volume of a buzzer.
- To know how the use of switches affects a circuit
- To know the symbols in an electrical circuit diagram

**Skills**

- **planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.**  
 This could be achieved by... comparative tests using light/ sound and number of batteries/ cells in the circuit. Pupils create own questions – pupils challenge each other on if they are testable and offer advice to refine.  
 (Comparative and Fair Testing)
- **using test results to make predictions to set up further comparative and fair tests**  
 This could be achieved by... comparative tests using light/ sound and number of batteries/ cells in the circuit.  
 (Comparative and Fair Testing)
- **Recording data and results of increasing complexity using scientific diagrams and charts.**  
 This could be achieved by drawing circuit diagrams showing how to increase brightness of bulbs. Create an alarm system to show increase in buzzer loudness.  
 (Comparative and Fair Testing)

<b><u>Vocabulary</u></b>	
Voltage	Transformer
amp	Filament
Current	Energy
Resistance	
resistor	