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Spring 2 | Year 6

What I should already know:

- 1 That a complete circuit is required for a bulb to light.
- 2 That batteries produce electricity.
- 3 That an electric current passes through a circuit.
- 4 That a switch opens or closes a circuit.
- 5 That some devices run off mains and some off batteries.
- 6 That metals are good conductors.

What I will Learn:

- That the brightness of a lamp or the volume of a buzzer is associated with the number and voltage of cells used in the circuit.
- To give scientific reasons for variations in how components function, including the brightness of bulbs and the loudness of buzzers.
- To use recognised symbols when representing a simple circuit in a diagram.

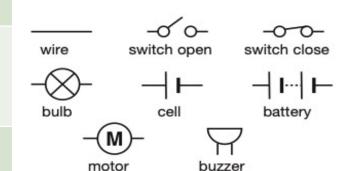
Working scientifically skills:

- Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.
- 2 Record data and results using scientific diagrams and labels.
- 3 Report and present findings from enquiries, including conclusions and explanations
- 4 **Gather** and **record data** to help in answering questions.

Scientists/Inventors:

Nikola Tesla

Electrical & Mechanical Engineer who developed the AC electrical system and made important advances in technologies such as x-rays, neon lights and Robotics.



Key Vocabulary:					
1	cell	a single battery that provides power to a circuit.			
2	component	something that makes up part of a circuit such as a bulb or wire.			
3	circuit	a path that an electrical current can flow around.			
4	current	the flow of electrons , measured in amps .			
5	Voltage	the force that makes the electric current move through the wires. The greater the voltage, the more current will flow.			
6	amps	how electric current is measured.			
7	electrons	very small particles that travel around an electrical circuit .			