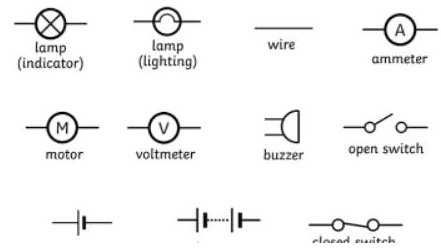




Jerry Clay Academy Subject Unit Overview

Subject: Science (Electricity) Year Group: 6 Term: Summer



Core Learning of This Unit:

- To know that the brightness of a bulb is associated with the voltage.
- Be able to compare and give reasons for variations in how components function.
- Be able to use recognised symbols when representing a simple circuit in a diagram.
- Have constructed simple series circuits.
- Be able to answer questions about what happens when you try different components, for example, switches, bulbs, buzzers and motors.

Prior Learning:

From KS2: Children will have learnt about electricity in Y4.



National Curriculum Statements:

Pupils should be taught to:

- 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.

Key Vocabulary:

- **circuit** -a pathway that an electric current can flow around.
- **symbol**-a visual picture that stands for something else.
- **current**-a flow of electricity through a wire.
- **amps**-how electric current is measured.
- **voltage**-an electrical force that makes electricity move through a wire.
- **electrons**-very small particles that travel around an electrical circuit.
- **components**- the individual parts that are put together to make the circuit.
- **cell**-a device used to generate electricity. A battery is an example of a cell.
- **battery** -a small device that provides power for electrical items.
- **bulb** -A glass lamp that provides light by passing an electrical current through a filament
- **filament** -a conducting wire or thread with a high melting point that is part of an electric bulb.
- **motor** – a device that produces movement in a complete circuit.
- **switch**- a device for making or breaking the connection in a circuit.
- **buzzer** -an electrical device that makes a buzzing sound in a complete circuit.
- **resistance**-the difficulty that the electric current has when flowing around a circuit.

Significant People

Alessandro Giuseppe Antonio Anastasio Volta was an Italian physicist, chemist, and pioneer of electricity and power who is credited as the inventor of the electric battery and the discoverer of methane.