

## Science – Year 4 - Spring 2

### Prior Knowledge

- Objects are made from different materials
- Materials behave differently
- Ask simple scientific questions
- Make simple predictions
- Carry out basic investigations
- Record results in simple tables
- Use equipment carefully and safely
- Talk about what we found out

### Key Vocabulary

Electricity	A type of energy that can make things work, such as lights, buzzers and motors.
Switch	A device that opens (breaks) or closes (completes) a circuit.
Circuit	A complete loop that electricity travels around.
Battery	A device that stores chemical energy and converts it into electrical energy to power gadgets like toys and torches.
Wire	A metal conductor covered in plastic that connects parts of a circuit.
Conductor	A material that allows electricity to pass through it (usually metal).
Insulator	A material that does not allow electricity to pass through it (e.g., plastic, rubber, wood).

### Core Knowledge

- Electricity is a form of energy that can power devices.
- A complete circuit is needed for electricity to flow.
- A circuit must form a closed loop to work.
- Basic circuit components include a cell (battery), wires, bulb, and switch.
- A switch opens and closes a circuit.
- Metals are usually conductors of electricity.
- Materials like plastic, rubber and wood are insulators.
- Electricity can be dangerous and must be used safely.

### Diagrams

