

Science Vision Map

Year 4 – Electricity

Crucial Knowledge

- Electricity is a form of energy.
- Electricity can be dangerous and must be used carefully. It should never be mixed with water. Mains electricity should never be used for investigations.
- Electrical current means the movement of electricity.
- Wires are used for electrical currents.
- Switches can be used to open and close an electrical circuit (path).
- Metal is a good conductor which means it allows the flow of electricity to move about.
- Some materials do not conduct (allow the flow of) electricity. These are called insulators.

Intent

- Recap – Forces and magnets (Year 3)
- Things that use electricity
- Simple series electrical circuits
- Loops using a battery and a lamp
- Switches to open and close a circuit
- Common conductors and insulators
- Michael Faraday: made lots of discoveries using electricity