

Year 3/4 Electricity Knowledge Organiser

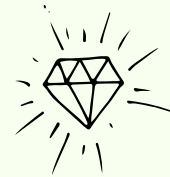


What do I already know ?



- I can identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. (Y2)

Gems of knowledge



- I will identify common appliances that run on electricity.
- I will name the basic components of a circuit.
- I will construct a simple series circuit.
- I will identify complete and incomplete circuits.
- I will use a switch to open and close a circuit.
- I will identify some common conductors and insulators.

How will I work like a Scientist?

- I will ask and answer questions using different types of scientific enquiry (Y3- when prompted).
- I will set up investigations (Y3-with some support).
- I will make observations using equipment.
- I will take accurate measurements using standard units. (Y3- with some support).
- I will gather, record, classify and present data in a variety of ways to help to answer a question. (Y3- with support).
- I will record findings using simple scientific language, drawings and labelled diagrams/charts.
- I will report on my findings from an investigation.
- I will use scientific evidence to answer a question.
- I will use results to draw simple conclusions.



Key vocabulary

Meaning

Circuit

A pathway that electricity can travel around.

Electrical appliance

A device that requires electricity to function.

Component

A part in a circuit.

Electricity

The flow of electric current through a material.

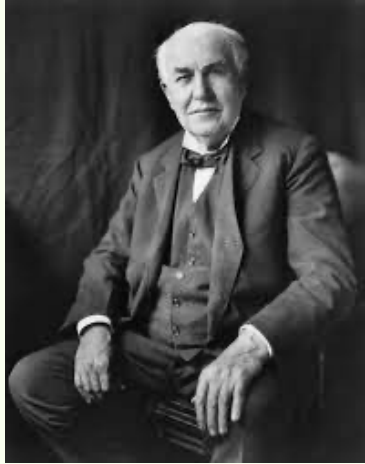
Electrical Conductor

A material which electricity can flow through.

Electrical Insulator

A material that does not allow electricity to flow through.

Significant Scientist



Thomas Edison was a famous American inventor. He is best known for inventing 'domestic' lightbulbs to go in houses, and the electric power system that allows them to work.

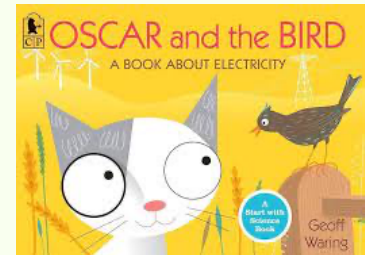


Careers in Physics



A **electrical engineer** fixes and designs new and better ways of using devices that use electricity.

Read me!



Oscar and the Bird: A Book about Electricity.

Available to listen to on YouTube,

Electrical Wizard: How Nikola Tesla Lit Up the World.

