



Yarm Primary School

Year 4

Electricity

Where Does Electricity Come From?

Key Vocabulary

volts	The difference in electrical energy between two parts of a circuit.
Insulator	Doesn't allow electricity to pass through.
conductor	Allows electricity to pass through.
electrons	Small particles with an electrical charge.
energy	The ability 'to do work'. There are many different forms of energy.
circuit	Complete path where electricity can flow.
switch	Changes the flow of an electrical circuit.
renewable	Sources of energy that will eventually run out.
Non-renewable	Sources of energy that can be used again.
electricity	The flow of an electric current or charge through a material.
appliances	Pieces of equipment or devices designed to perform specific functions.

Suggested Activities

- Electricity and the Environment - <https://www.childrensuniversity.manchester.ac.uk/learning-activities/science/energy-and-the-environment/renewable-and-non-renewable/>
- Can you try to make static electricity? Try to rub a balloon against your jumper and put it close to your head. What happens? Run a plastic comb through your hair, put the comb close to running water. What happens?
- Volta Reading Comprehension.
- Electricity Word search.
- How many items in your house can you find that use electricity? **BBC Bitesize** Might help you with this!
- Create an electricity-free day diary. What would your day look like if you had no electricity?

Find and research these famous people!



Why are these people famous? Could you create a timeline of 'electrical events' and place other key people on it?

'Sticky' Knowledge

- Electricity is a type of energy that we increasingly rely on.
- Generating electricity can damage the environment.
- A bolt of lightning is electricity.
- Solar energy is a type of renewable energy. This can be created in homes and schools.
- Many cars are now electric and we will be driving them in the future.
- You can create a simple circuit using wires, a bulb and a battery.
- Batteries store energy in cells so that electrical appliances can be portable.
- Did you know that all animals generate electricity?

Can you think of any of your own facts?

What do you already know?