

Year: 4
 Term: Summer 2
 Topic: Electrical systems - Torches

Where does this learning link to aspirations for the future?

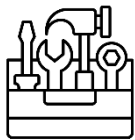
Electricity was invented by Benjamin Franklin. Most industries now need people trained to work with electrical products.

In DT we follow this five step process.

Research



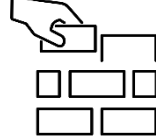
Skills



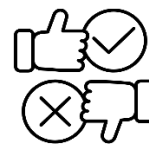
Design



Make



Evaluate



In the past, there were no electrical items because they had not been invented yet.

Many products use batteries



Glossary

battery

Made from two or more cells that provide electrical energy to power a circuit

bulb

A part of a circuit made from glass or plastic that gives light when electricity passes through it.

conductor

A material that allows electricity to flow through it, such as metal.

design criteria

A set of instructions for the project.

electricity

A type of energy that is usually invisible and can be made or stored to make things work, such as moving or heating objects.

insulator

A material that does not let electricity flow through it, such as plastic.

series circuit

A closed circuit where the current flows in one path.

switch

A part of a circuit that can open or close to allow electricity to flow or stop it from flowing, such as a light switch that turns lights on or off.

test

To find out whether something works as it should.

torch

A battery-powered light that can be carried.

wire

A thin piece of copper that conducts electricity and connects circuit components together.