

Year 4 DT Torches

Key Skills

1. To learn about electrical items and how they work
2. To analyse and evaluate electrical products
3. To design a torch
4. To make and evaluate a torch

Vocab/Key Words

Battery—Two or more cells put together to provide electrical energy to power a circuit.

Bulb—A circuit part, made from glass or plastic, which gives out light when electricity passes through it.

Copper—A reddish metal material that is good at letting heat and electricity flow through it. It is often used to make wires and pipes.

Insulator—A material that does not allow electricity to flow through it. e.g. plastic.

Series circuit—A closed circuit where the current follows one path.

Switch—A circuit part that you can open or close to allow electricity to flow through or to stop it flowing through. (For example, in a house, an electric light switch lets you turn the lights on or turn the lights off.)

Key Knowledge

Many products use **batteries!**



Did you know?



Once upon a time, there were no **electrical items** to use!
They had not been invented.
How would life be different for you without **electrical items**?

Previous Learning

- ◆ Static electricity (Year 3)

What I will know/be able to do by the end

- In this topic, children apply their scientific understanding of electrical circuits to create a torch made from easily available materials and objects. They will also design and evaluate their product against set design criteria.
- I can follow health and safety rules
- I can suggest appropriate design criteria points to fulfil the design brief

Websites/Signposting/Connection to a famous person

<https://www.youtube.com/watch?v=WEsk-W8hoLo>

<https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-4/electrical-systems-torches/>