DT Year 4/5 Autumn Term: Knowledge Organiser – Electrical Systems Torches



Key Learning (Skills)

DT: By the end of this learning I will be able to…

- Design a torch, giving consideration to the target audience and creating both design and success criteria focusing on features of individual design ideas.
- Make a torch with a working electrical circuit and switch.
- Use appropriate equipment to cut and attach materials.
- Assemble a torch according to the design and success criteria.
- Evaluate electrical products.
- Test and evaluate the success of a final product

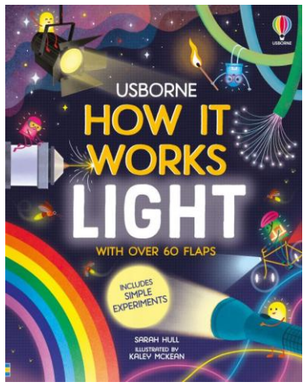


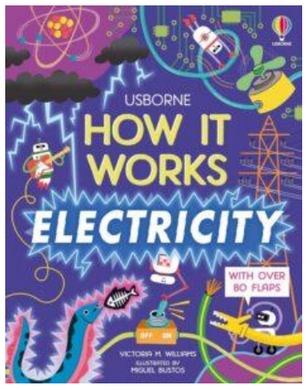
Key Learning (Knowledge)

DT: By the end of this learning I will know…

- Electrical conductors are materials which electricity can pass through.
- Electrical insulators are materials which electricity cannot pass through.
- A battery contains stored electricity that can be used to power products.
- An electrical circuit must be complete for electricity to flow.
- A switch can be used to complete and break an electrical circuit.

Good Books







Key Vocabulary

Insulator	A substance which does not readily allow the passage of heat or sound.
Target audience	A particular group at which a product is aimed
Series circuit	Connects electrical components in a single loop
Circuit diagram	Drawing of an electrical circuit
Conductor	Material that allows heat or electricity to flow through it

What I already know (prior learning)

Year 2/3:

- How to use electrical systems to make an electrical poster
- To design and sew a pouch

What I will learn next

Year 6:

- To use my knowledge of electrical systems to make a steady hand game