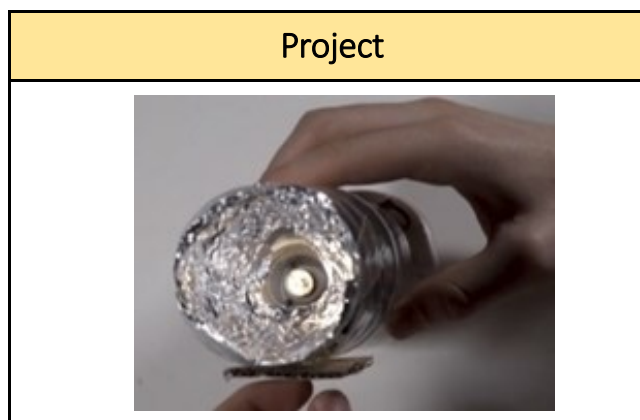




Knowledge Organiser					
Year Group:	5	Subject:	DT– Electric & Digital (Torch)	Term:	Autumn 1

Concept

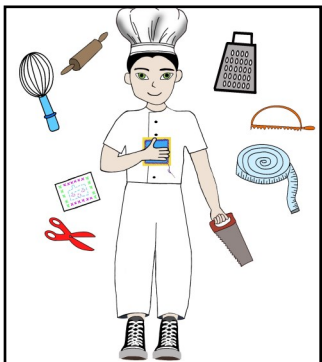


Technical knowledge	
•	A battery is a source of energy which provides a push - a voltage - of energy to get the current flowing in a circuit.
•	A series circuit contains an on-off switch, bulb and battery.
•	When the switch is turned on the electrical current flows through the conducting material.
•	A torch includes the following features: case, contacts, batteries, switch, reflector, lamp, lens

Prior experiences or knowledge learnt
- Electricity is a form of energy that can be carried by wires and is used for heating and lighting, and to provide power for devices. - Sources of light and sound may need electricity to work.

Skills I am practising
- To appraise and analyse a range of torches and comment on their features. - To learn about electrical items and how they work. - To learn how a switch controls the flow of an electric current. - To design a torch based on a user profile. - To make a torch based on a user profile. - To evaluate my torch and identify any improvements that could be made.

Sequence of learning	
1)	Compare and evaluate existing torches
2)	Create a design criteria for a torch and design a torch
3)	Practise creating an electrical circuit with a switch
4)	Make the outer components of the torch
5)	Make the electrical components and put them inside the torch casing
6)	Evaluate product (torch) created



Knowledge Organiser

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Key vocabulary

Tier 2	Tier 3
torch light beam brightness	reflective opaque translucent
circuit battery bulb	insulator conductor soldering
handle switch lens	component
glass plastic metal	