KNOWLEDGE ORGANISER

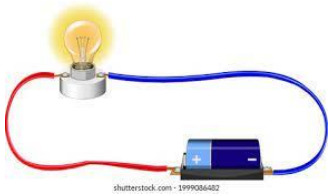
DT	LIGHT AND SOUND	YEAR 3/4

Cross curricular links

Science

- Electricity and building circuits.
- Light and sound
- Materials and their properties

Pictures/photos relevant to topic



Key skills

Use electrical systems in products

Create a detailed plan of a product they can design that uses light or sound

Use a wide range of materials and components to create a product that uses light or sound

Children need to consider the aesthetic of what their product will look like

Evaluate the product made against own design criteria concerning appeal to the targeted group

Key Vocabulary/definitions

Series circuit: a circuit where the current flows through each of the components
Components: parts of a circuit
Current: electricity that runs through the circuit

Product: something that is made
Purpose: what is the product to be used they are used for and by whom
Function: what the product will do and how well does it do it
Design Criteria: a list of requirements that the product must meet
Aesthetic: how will the product look to the user

Useful Information

A circuit has to be complete in order to work.

It needs a power source, such as battery to power the circuit

In order to create light or sound, components such as lightbulb or buzzer are required.

Not all materials will be appropriate to use a with a circuit - properties need to be considered.