



Year 3 - Summer 2 - Design & Technology KO

What I already know...

This is new learning in year 3.

Key Vocabulary

simple circuit	It is a complete path around which electricity can flow.
battery	It is a device that can store electricity.
switch	It is something that changes the flow of an electrical circuit.
light bulb	It is a device used to create light (illumination).
buzzer	A buzzer is a component in a circuit that makes a sound when electricity goes through it.
electrical component	An electronic component is a basic electronic element.
short circuit	A short circuit happens when the current going through wires does not travel the correct path of the electrical current.

What I will learn...

To know the dangers of electricity.

To know how to make manually controlled, simple series circuits with batteries and different types of switches, bulbs and buzzers.

To know which of the components in the circuit are input devices e.g. switches, and which are output devices e.g. bulbs and buzzers.

To know how to make a switch

To know how to avoid making short circuits.

D.T skills:

Make a variety of switches by using simple classroom materials e.g. card, corrugated plastic, aluminium foil, paper fasten

Make switches that operate in different ways e.g. when you press them, when you turn them, when you push them from side to sides and paper clips.

Develop a design brief with audience and purpose in mind.

Select tools and techniques

Measure, mark out, cut, score and assemble parts

Work safely and accurately with a range of tools

Change ideas to improve their work



Making a difference at The Merton and beyond

ELECTRICAL CIRCUITS

In this unit, the children will be inspired to work collaboratively and to learn about a new concept—creating simple electric circuits and switches.

Once the children are confident with creating a circuit with electrical components, they will independently apply these skills by designing and making an illuminating element to add to their art work.

Wow!