



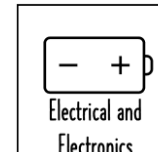
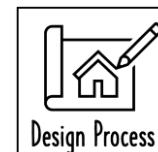
Year 3 and 4
Autumn Block
Cycle A

Moor First Art and Design

Knowledge Organiser

Topic Covered: Electrical Systems

WEAVING CONCEPTS



What will I learn?

I will learn how to make simple circuits and switches (including programming and control)

I will incorporate a circuit with a bulb or buzzer into a model.

Labels are important when designing a product as it shows specific features and highlights materials needed.

A series circuit is where all components are in 1 loop so the electricity has 1 direction to flow.

A conductor allows electricity to pass through.

What should I already know?

Y3: Electricity can be very dangerous.

Electricity is used all around the world, in homes, schools and businesses.

I can group electrical items with non-electrical items.

Y4: I can start to understand that mechanical and electrical systems have an input, process and output.

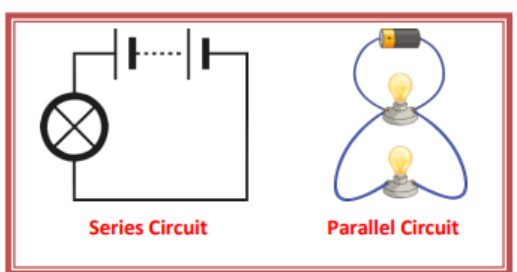
I know how simple electrical circuits and components can be used to create functional products.

Key Vocabulary

Series circuit	A circuit made in a single loop, where the electricity passes by one part of the circuit at a time.
Battery	A source of electrical power.
Connection	Where something is connected.
Conductor	Allows electricity to pass through it.
Insulator	Does not allow electricity to pass through it.
Buzzer	Makes a noise when electricity passes through it.

Circuit Symbols

lamp		
motor		
battery		
switch		
buzzer		





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