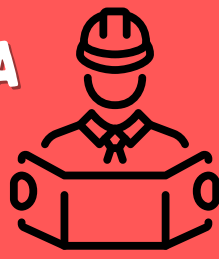




DT- HOW DO LIGHTS WORK? CAN I CREATE A PRODUCT TO SHOW MY KNOWLEDGE OF CIRCUITS?



RECAP

How to design, plan and make a product.

Some products need to be plugged in to light up whilst others use batteries.

CRUCIAL KNOWLEDGE

A design criteria tells you what a product needs to be.

Appropriate tools need to be selected during the making process.

Looking at existing products can help inform designs.

A complete circuit with a cell connected to a bulb will make it light up.

Circuits must be complete to work.

EXTENDED KNOWLEDGE

A series circuit can include a switch and light up more than one bulb.

KEY VOCABULARY

Light-up sign	A sign or display that is illuminated by lights, often used for advertising or providing information.
Circuit	A closed loop or pathway through which electric current flows, consisting of electrical components such as wires, batteries, and LEDs.
Battery holder	A device or compartment that securely holds batteries and provides electrical connections for the circuit.

Wiring	The process of connecting electrical components and creating pathways for electric current to flow, usually involving the use of wires, connectors, and insulation.
Functionality	The capability or effectiveness of a design or product to perform its intended task or purpose successfully.