

I should already know:

- How to create successful design ideas
- Workshop Health and Safety and knowledge of tools and equipment

I will learn:

Key Designers

Influential designers have had an impact on fashion and design trends for many years and even more so in modern day society, particularly within the fashion industry. You will learn about a selection of fashion, product and graphic designers and how their work has influenced trends.

Electronics

You will understand circuit diagrams, symbols and components. You will be able to identify a range of different components that make up a simple colour changing LED circuit. You will understand the purpose they hold in the circuit and how to solder a circuit together.

Tools and Equipment

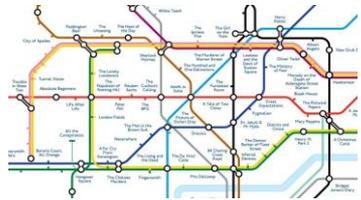
You will understand a range of tools and equipment in the workshop that are both new and ones that consolidate your learning

This will help in the future:

Cross curricular understand of circuits, circuit symbols and diagrams that will link to your science work and also help you with your future studies in technology

Key Words

Key influential designers	These are designers across any area of design that have influenced the direction of fashion or trends over the years.
Tap and Dye	Taps and dies are tools used to create screw threads, which is called threading
PCB	Printed Circuit board. This is where you solder components to so that the flow of electricity can form a circuit
Soldering Iron	an instrument for melting and applying solder.
Circuit Diagram	A drawn diagram to explain how a circuit will work, it will include the components
Circuit Components	These are the items which will go on your circuit e.g resistors, LEDD etc



Greater Depth Challenge

Create mood boards on key designers . Look at the following:
 Vivienne Westwood
 Coco Chanel
 Harry Beck
 Philippe Starck

Further Reading

<https://www.kitronik.co.uk/2131-colour-changing-usb-lamp-kit.html>

Circuit component and circuit symbol

SLIDE SWITCH		
LIGHT EMITTING DIODE		
RESISTOR		
NON-ELECTROLYTIC CAPACITOR		

Harry Beck – The Tube Map
Designed by Beck in 1933 and still used to this day because of its easy to read layout.



Task:
Look at the tube map and explain how and why it is easy to follow even if you were a visitor to London for the first time.

Tools and equipment used to construct a mood light in the workshop



Laser Cutter



PCB



Solder



Soldering Iron



Acrylic sheets

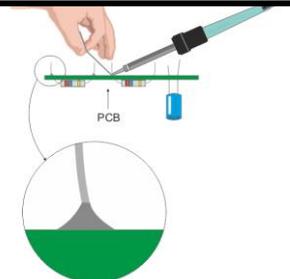
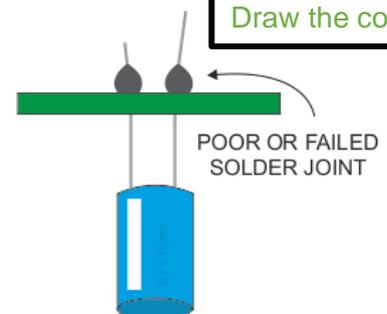


Plywood

Soldering

Soldering is how we attach the components to the circuit to allow the flow of electricity. You are creating a joint. The diagram shows the right and wrong way of creating this joint. If the solder does not connect correctly the joint will be 'dry' which means it is not connected correctly and so electronic current cannot flow through.

Task:
Draw the correct and incorrect solder joint



Circuit component and circuit symbol

SLIDE SWITCH



LIGHT EMITTING DIODE



RESISTOR



NON-ELECTROLYTIC CAPACITOR



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