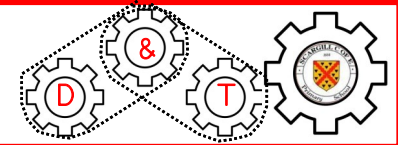




Knowledge Organiser:

Night Light

Y3/4

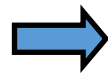


Domain of Knowledge: **Product Design**

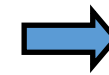
Focus Skill: **Incorporating electrical components.**

Design Process:

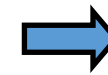
Innovate



Plan and Design



Create



Evaluate

Key Vocabulary

Stable Structure—Object that holds its shape.

Simple Circuit—A circuit with one loop.

LED—**L**ight **E**mitting **D**iode.

Customer—Who we are making it for.

Key Skills

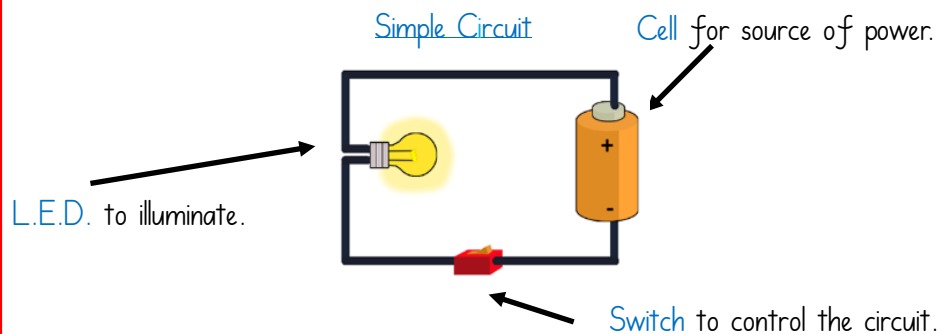
Joining—Joining **materials** for the **structure**.

Measuring—Ensuring all **materials** are cut **accurately**.

Wiring—Creating a **simple circuit**.

Testing— Does it **power on** and **support** its shape?

Diagram



Real Life Image



Starry Sky Nightlight
Produced to recreate the night sky.

Linked Engineer



Warren de la Rue (1848-Guernsey)
Inventor of first functioning lightbulb.



Knowledge Organiser:

Photo Frame

Y 3/4

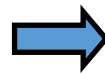


Domain of Knowledge: **Product design**

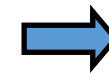
Focus Skill: **Stable frame with moving part**

Design Process:

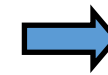
Explore and Plan



Design



Create



Evaluate

Key Vocabulary

Stable —A structure unlikely to give way or overturn.

Rigid—unable to bend or be forced out of shape.

Components— different parts of the photo frame.

Easel backed picture frame— Frames that have a fold out arm which the frame can lean against.

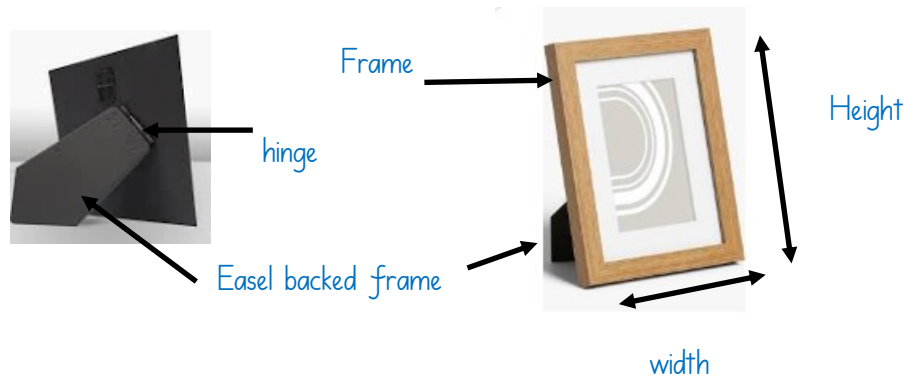
Key Skills

Measuring—Accurate measurement of frame components .

Joining—Attaching sides of frame so they are stable.

Testing— Does the frame stand up?

Diagram



Real Life Image



Linked Engineer

Brampton Picture Framing

Frame Makers & Framing Materials Suppliers

Frame makers

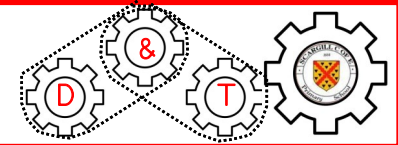
(Chesterfield)



Knowledge Organiser:

Roman Purse

Y3/4

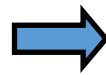


Domain of Knowledge: **Product Design**

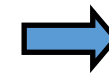
Focus Skill: **Textiles**—sewing material.

Design Process:

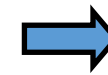
Innovate



Plan and Design



Create



Evaluate

Key Vocabulary

Thread—Object that holds it shape.

Material—A circuit with one loop.

Stitch—A thread running through material.

Customer—Who we are making it for.

Key Skills

Joining—Joining **materials** together.

Measuring—Ensuring all **lengths** are cut **accurately**.

Stitching—Using a **needle** to join **materials**.

Testing—Does it **hold together** and **maintain** its shape?

Diagram



Real Life Image



Roman Purse

Replica of a Roman style purse.

Linked Designer

Ruby Shoo

Ruby Shoo (Local Comppany)

Staffordshire based Bags & Purses.