

Subject: Design Technology
Faculty: Innovation
Year Group: 8

EXCELLING (-, =, +)



All of the secure criteria plus:
 Describe improvements you could make and how you make these. Be able to work with a fine margin of tolerance, and carry out quality control checks

All of the secure criteria plus:
 Be able to analyse textiles choices when thinking about sustainability. Understand the terms anthropometrics and ergonomics and their correlation to each other.

All of the secure criterion plus:
 To be able to form materials using jigs and moulds, to make ergonomically designed products.

SECURE



Autumn Term

Spring Term

Summer Term

Assessment strategy:
Informal retrieval practice
Teacher/Self/Peer assessment
 Memory Box, Christmas Laser cut (retrieval)

Assessment strategy:
Informal retrieval practice
Teacher/Self/Peer assessment
 Batik Bag, Tie-dye, Batik, pattern marking

Assessed strategy:
End of year standardised assessments
 Acrylic Jewellery
 Laser cutting, forming, steaming and 3D printing

Technical Knowledge

Identify, explain and **explore** technical equipment, materials, components and techniques.

 Recognise and **explain** that joints/designs have to meet a range of different needs- In relation to suitability. Be able to explain how to make a range of joints.

Everything from terms 1 and 2 plus:
Understand the characteristics of different materials, components and processes.

Understand a range of advanced/ specialist techniques.
 Be able to explain the difference between batik, screen printing and understand the use of paper patterns.

Everything from terms 1 and 2 plus:
 Have a **broad knowledge** of different materials, components and processes.

 Understand the properties of Materials and their uses

Independently explore subject specific tasks (extra curricular/home projects).

Evaluating

Compare design ideas/final product against the design brief.

 Suggest **improvements** for their product with reasons.

 Use **technical terminology** from **examining, describing** and **evaluating**.

Everything from terms 1 and 2 plus:
Explain why materials or techniques have been used.

Identify and **justify** any changes from the final design idea to the final product.

Everything from terms 1 and 2 plus:
 Suggest **alternative** materials, components and **explain** choices.
 Be able to compare and evaluate the similarities and differences between techniques and processes.

 Carry out investigations/tests/ experiments to evaluate final products.

 Be able to analyse and evaluate to academic literature.

Practical Making

Select & use a range of tools equipments and materials

 Able to make a variety of wood joints

 Work **accurately** and within **tolerance**.

 Produce a **well designed, quality** product of the final product

Everything from terms 1 and 2 plus:
 Work form your own **detailed plans**

 Use a range of tools and equipment with **precision**

 Carry out a range of **specialist techniques** such as Tie-dye, batik and sublimation

 Produce a **high quality**, well considered final product

Everything from terms 1 and 2 plus:
 Carry out all tasks **accurately** and with **precision**

 Be able to create a range of products using a range of materials

 Work **independently** and find **solutions** to design & practical problems

 Carry out a range of specialist techniques **independently**

Design Skills	<p>Generate detailed design sketches/drawings/prototypes. Designs rendered.</p> <p>Have a basic understanding of software tools to be able to produce a simple vectorised design.</p> <p>Use research to influence design ideas.</p> <p>Write a specification describing essential and desirable criteria</p>	<p>Everything from terms 1 and 2 plus:</p> <p>Designs are rendered to a high standard.</p> <p>Explore different materials, components or ingredients and use technical information to decide if they are suitable for the final product.</p>	<p>Everything from terms 1 and 2 plus:</p> <p>Designs are neat, well rendered and well presented.</p> <p>Generate a wide range of creative, well explained and justified designs.</p> <p>Write a detailed specification and explain choices made.</p> <p>Explain decisions regarding the choice of materials and manufacturing processes</p> <p>Model ideas 3D models or using ICT design software</p>
DEVELOPING (-, =, +)			
Not yet secure with all of the criteria set out for the term.			