



DESIGN TECHNOLOGY

CAREERS
TO
FLY

Core content and specialist knowledge:
Revise and practice exam papers in preparation for your final exam in DT.

AO3: Evaluate & Test:
Gain feedback throughout your project, and test your final product – have you met your brief?

AO2: Realise Design ideas:
Manufacture your product using skills and processes used throughout your DT journey.

AO2: Generate & Develop Design Ideas:
Develop your sketches and communicate ideas. Developing them using modelling techniques

AO1: Research & Investigation
Follow on from your summer task to further understand the context. Client interviews, product, site analysis and designer research.

AO1: Specification & Brief:
Clarify the needs and wants of the project writing your own brief & specification

Initial Concept Sketches:
What ideas do you have already? Can you visualize them?

Investigate the design possibilities:
What is the design context? Analysing the detail and potential problems and clients.

Materials:
Investigating properties, uses and advantages of textiles, wood, metals and plastics.

Forces & Stresses:
Testing by making a key ring including interfacing and laminating techniques.

FINAL GCSE EXAM

EXAM REVISION

NEA COURSEWORK

YEAR 11

Construction:
Looking at how to construct products using a range of techniques.

Manufacturing

Prototype:
Testing pattern by creating a toile.

Development:
Sampling and modeling to improve product. Iterative process.

Manufacture:
Use developed block pattern to create final garment.

Sampling:
Creating a range of surface design and manipulation samples. Quilting, printing embroidery, batik, ruffles and pleats.

Research:
Investigating iconic designers with a focus on Vivienne Westwood.

Sustainability:
Looking at environmental factors in the fashion/textile industry.

Manufacture:
Team work to upcycle an existing garment.

Skills

Mini NEA

GCSE NEA Contexts

Evaluate:
Testing garment with client and against specification. Suggesting how to improve it.

Make:
Building on skills from KS3 projects.

Surface Pattern:
A focus on screen printing and machine embroidery.

The Work of Others:
Analysing the existing work of iconic and relevant designers.

Research:
Investigating fabric construction with a focus on knitted. Know what makes a good mood board, investigate retail and build a shop

Prototype:
Creating a toile of a garment using a commercial pattern. Developing understanding of anthropometrics and pattern cutting.

Specialist Equipment:
Build sewing machine skills for KS4 preparation, threading and samples and refresh skills using small equipment.

Theory

YEAR 10

Research Investigating Skills

Garment Construction

Health and Safety:
Confirming knowledge of health and safety in the workshop in year 8.

KS4

Client Profile:
Investigating the storage context to consider potential clients.

Fastenings:
Sampling a range of fastenings to make a storage product more functional.

Surface Pattern:
Working on improving aesthetics by fusing polymers and carrying out a range of decorative stitches

Design:
Design and develop own storage product inspired by independent research.

Make:
Independently make own storage product from waste materials.

Evaluate:
Evaluating developed skills? Testing product and suggesting how to improve it.

Extension:
Investigate E Textiles, Smart materials to improve functionality.

Equipment Recap

YEAR 9 – Garment construction working in a batch production system with a focus on blended fibres / knits. Using a commercial pattern to create sweatshirt/hoodie with drawstring / pockets inspired by own research. Preparation for GCSE NEA.

Storage Product

YEAR 9

Research

Make:
Using waste material to make a phone case. Building on practical skills.

Woven / Non - Woven:
The properties of woven and non-woven fabrics and their uses.

Polymers:
Exploring the different properties of polymers and their uses.

Key Words:
Investigating key vocabulary linked to project in context.

Sustainability:
Looking at waste materials and its impact on the planet.

Mini Make – Phone Case

Materials

Sustainability

Investigating a storage solution context whilst exploring synthetic materials/non-woven textiles and the environmental impact of the textile industry. Developing new products made from waste materials.

Material Origins:
To understand the sources of different fibres. With a focus on Wool/silk/cotton. Investigating the different types of construction

The Work of Others:
Analysing existing design movements with a focus on Memphis design

Surface Pattern:
How to improve aesthetics using block printing, heat transfer, sublimation printing, stenciling and fabric pens.

Design:
Create a range of annotated design ideas, incorporating surface pattern in Memphis style.

Make:
Create large scale cushion in a Memphis style using hand techniques and CAD/CAM through sublimation prints.

Evaluate:
Gather peer feedback and suggest improvements and redesign ideas.

Situations:
Learn how to photograph and present work in its appropriate situation.

Design Strategy

Memphis Style Cushion

YEAR 8

Make:
Create a mini lavender filled cushion to develop machine skills and learn about seams.

Mini Make

Introduction to Equipment

YEAR 7

Sewing Machine Practice:
Create a range of samples to build skills when carrying out practical work.

Specialist Machinery:
Learning about sewing machine safety, parts and how to thread up correctly.

Small Equipment:
Looking at small specialist equipment and demonstrating to how to use skilfully and safely.

Baseline Assessment:
Finding out what DT skills and knowledge are already known.

Introduction to the workshop:
Focusing on health and safety in the workshop and looking at risk

KS3
An in-depth introduction to equipment and machinery. To build knowledge on materials, with a particular focus on natural fibres and woven construction. Skills and knowledge are built through designing and making a cushion for personal use inspired by the work of others with a particular focus on Memphis design.

