

DESIGN TECHNOLOGY



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



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

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

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

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

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



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



Investigate the design possibilities: What is the design context? What research can you carry out to gather ideas?



Materials: Working with hardwoods and specialist timbers. Working properties and recognizing materials.

After narrowing down your DT choices at the end of year 8 you will focus your studies in two DT disciplines in years 9, through exciting, real life contexts. Deepen your understanding of DT in the world around us whilst developing products that help various needs and users.

Work in more depth on projects, honing your practical skills, improving your resilience & problem solving whilst developing independence in the workshop/ design studio.

Experience a wide range of fun and exciting projects that teach you valuable skills in the workshop and design studio, understanding different materials and how they work.

FINAL GCSE EXAM 50% OVERALL

EXAM REVISION

NEA COURSEWORK 50% OVERALL

YEAR 11

Design: Designing for the client. How do we make a product functional, ergonomic and safe?

Materials: What materials will be appropriate for your product? What materials are sustainable?

Research: Research a range of renewable and non-renewable energy sources and materials

Design: Reference key design movements top to develop a stylish functional product.

Make: Put into practice the theory learnt about metals in previous projects to cast a pewter pendant with acrylic inlay.

Materials / Make: Use materials you have not combined before such as vinyl, acrylic and timber to develop a unique stylized product.

BOTTLE OPENER PROJECT

ENERGY PROJECT

PEWTER CASTING PROJECT

PHONE CADDY PROJECT

GCSE NEA CONTEXTS

DECORATIVE BOX PROJECT

Make: Use a wide range of new techniques including flocking and wooden veneers.

Make: Use a wide range of skills, materials and processes to develop your unique product.

Design: Focus your idea on the work of famous designers, use illustration or graphic design as inspiration.

Make: Develop your design through iterative processes and modelling, testing & evaluating before making a final product.

Design: Using removal techniques to develop a lighting solution based on the given context and needs of your client

Make: Addition processes & wood joints. Using skills to develop high quality craftsmanship products.

Design: Practicing Isometric Projection and rendering skills. Orthographic projection.

YEAR 10

CONTEXT: ENCOURAGING TEENAGERS TO HAVE A HEALTHY LIFESTYLE

Materials: Timbers - hard woods and softwoods, why do we use them?

MEMPHIS MUG PROJECT

Make: What is CAM? Use the laser cutter to produce your final product!

Design: Isometric projection, CAD development

Testing / Modelling: Will my product work? What can I do to improve it?

Make: Can you make an accurate product using machines and tools independently?

Evaluate: What skills have you developed? Test your product and consider how you would improve it.

CONTEXT: LIGHTING IN THE HOME

YEAR 9



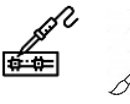
Evaluate: At each stage of making, how can you improve your product? Would you change anything?

Make: Develop independence in CAD using Photoshop and Illustrator software to make complex design ideas.

Design: Designing for a user and client. What is an orthographic projection? Develop design ideas using CAD. Designing using the style of another designer

Materials: Working with plywood and vinyl to develop a working passive amplifier

DE STIJL PASSIVE AMPLIFIER PROJECT



Make: Applying finishes – use acrylic paint and vinyl to decorate their final piece

Evaluate: Does your product work? How can you fix problems?

Materials: Working with card, cutting and finishing techniques.

Design: CAD What is computer aided design? Learn to use the basics of Photoshop software to design products

Die Cutting: Die cutting. What does it do? How is it used in industry?

Evaluate: How has CAD / CAM helped you make a product?

CRESS HEADS PROJECT

YEAR 8



Design: Designing with restrictions Orthographic Projection & Rendering

Materials: Timbers Classification. What is a manufactured board?



Evaluate: What makes a good clock? How can you improve your skills?

Make: Joining methods – comb joints Shaping manufactured boards Marking out and drilling material

Design: Designing for users Rendering Hand-drawn design development

Materials: Wood classification. Where does timber come from?

POP ART CLOCK PROJECT

Baseline Assessment: What do you already know about DT?

Introduction to the workshop: Health and Safety Team building activities

YEAR 7

KS3

