Design and Technology Curriculum Summary

KS5 Curriculum Summary

In year 12 the A level course aims to build on existing knowledge from GCSE studies and challenge students to refine their design thinking to achieve a high level of sophistication and depth in their design thinking. In sixth form a number of our students from GCSE are joined from students from other schools with a GCSE in D&T.

In year 12 students complete a range of projects, increasing in complexity that are designed to equip students to tackle challenging open-ended design problems. We specifically build prototyping skills, including an emphasis on CAD/CAM outcomes. Projects encourage students to make perceptive observations, looking for problems to solve in the world around them.

We teach the theory part of the subject for the written papers in separate dedicated lessons throughout year 12 & 13. The content is broken down into a number of units that are mostly taught in the single lessons alongside project work.

Exam board: AQA

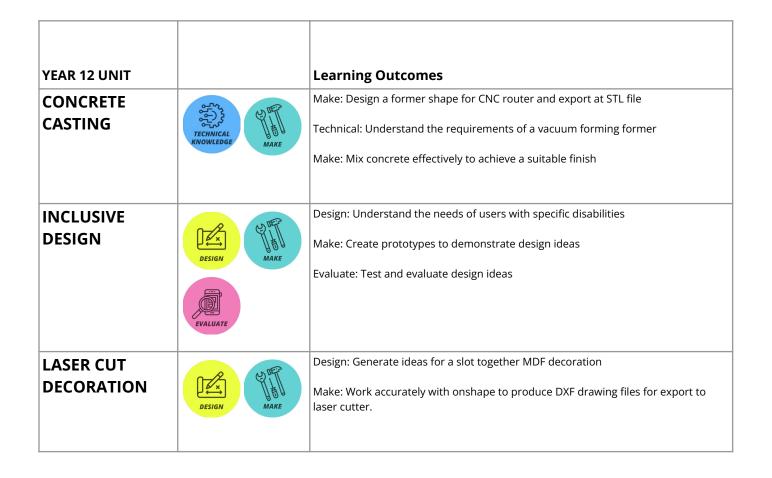
A-level Specification: 7552 Design & Technology: Product Design

Non-Examination Assessment

The NEA project follows a 'student-led context' that each student must investigate and define themselves. Emphasis is placed on working with a real client and using the iterative design model to continuously test and refine their design ideas. Projects vary significantly. The NEA at A level is highly challenging but very rewarding to many students.







USER CENTRED CLEANING PRODUCTS	DESIGN EVALUATE MAKE	Design: Generate solutions to cleaning scenarios faced by specific user groups Make: Functioning Prototypes that can be tested by using existing products and adaptations. Evaluate: Study human activities to understand the use of a product.
LEARNING TO LOOK	EVALUATE DESIGN	Evaluate: Use observation and analysis to identify user needs Design: Generate create design solutions to identified needs
PROJECT PORTFOLIO	DESIGN MAKE EVALUATE	Students present highlights of their project work throughout year 12 to showcase their best work in all areas of the curriculum.

TECHNICAL KNOWLEDGE	THEORY UNIT	Learning Outcomes
Polymers		
Timbers		
Metals		
Composites		
Papers & Boards		
Industry		
Product Design		
Design Methods		
Design Practice		
Responsible Design		

NEA		Learning Outcomes	
Context Investigations	DESIGN		
Design Generation	DESIGN MAKE		

	DESIGN MAKE	
Design Development	TECHNICAL KNOWLEDGE	
Prototype Planning	DESIGN WAKE	
Prototyping	TECHNICAL KNOWLEDGE	
Testing & Evaluation	EVALUATE CONTROL CALL KNOWLEDGE	