

KS4 DESIGN AND TECHNOLOGY CURRICULUM PLANNING MAP



WHAT IS DESIGN AND TECHNOLOGY AT KS4: A GCSE in Design and Technology offers a foundation in the principles and iterative design practices of various 21st century design and manufacture industries. The qualification offers flexibility in the approaches students use to apply knowledge and understanding of these practices and principles when designing and making prototypes that solve real and relevant problems.

QUALIFICATION AND WHAT TO ACHIEVE:

Students will achieve a GCSE grade 9-1 in Design and Technology. The GCSE is made up of 2 components. In the written exam students can chose on category to focus on for the in-depth knowledge section. The internal assessment contextual challenge is set by the exam board.

External assessment	Internal assessment
Design Principles exam (120mins)	Non examined assessment NEA
Exam occurs in May/June of year 11	(40 hours)
100 marks	Starts in June of year 10
50% weighting	100 marks
	50% weighting

YEAR 11: From June of Year 10 until the end of the spring term, students will work independently to complete the Iterative design challenge non examined assessment from a contextual challenge set by the examination board.

Alongside this students will prepare for the 2 hour Design Principles written paper that will be taken in May/June. The written paper is 15% maths based questions and will test both their core and in-depth knowledge on one of the following categories;

- Paper and board
- Timbers
- Metals
- Polymers
- Textiles

YEAR 10: Using the skills gained in year 9, students will complete a numbers of challenge based projects. They will be expected to work independently and at times in a team. Their creativity is encouraged and problem solving skills are developed. Topics such as sustainability and iconic designers and their products are explored building on the core knowledge. Students are expected to present their ideas professionally preparing the for the Iterative design Challenge in year 11 and for the real world.

YEAR 9: Students will focus on developing the skills needed to access the Iterative design challenge and the design principles exam through a series of teacher led projects. These will cover the main categories in the subject. They will be aware of health and safety implications and be more responsible for working independently and safely.

