



Cotswold Edge Sixth Form



Subject	DESIGN AND TECHNOLOGY: PRODUCT DESIGN A LEVEL	Exam board	AQA/ Eduqas
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Course outline

At this level emphasis is placed upon the design of products for the real world and students will learn about production methods, the application of modern materials and how modern technology is integrated into manufacturing systems.

Throughout the course students will develop communication and practical skills through the completion of a number of open ended and focused design activities. Environmental issues are of high priority within this course, and students are encouraged to consider aspects of sustainability when designing and making.



A-level Design and Technology: Product Design requires students to engage in both practical and theoretical study. This specification requires students to cover design and technology skills and knowledge as set out below.

- Core technical principles
- Designing and making principles
- Additional specialist knowledge

Students will demonstrate their knowledge of the above criteria through written exams and an extended design and make project. Within this, students will be able to work in a wide range of media and may include the opportunity to develop a rounded knowledge of Computer Aided Design and Computer Aided Manufacture. Students must also demonstrate knowledge of Science and Mathematics with the context of design and technology.

Course assessment

Examination (50%)	Non Exam Assessment (NEA) (50%)
Students will be expected to demonstrate their knowledge and understanding of: <ul style="list-style-type: none"> • designing and innovation • materials and components • manufacturing processes • industrial and commercial practice • product analysis and systems • human responsibility • public interaction – marketing and research. 	Practical application of technical principles, designing and making principles and specialist knowledge. Substantial design and make task undertaken in school over 45 hours (Submitted at the end of Year 2)

Course progression

In the past students who have successfully completed an A-level in this subject have progressed to higher education courses or higher level apprenticeships related to electrical engineering, electronic engineering, mechanical engineering, aeronautical engineering, industrial design, product design, graphic design and structural engineering, including architecture. Students who have not followed a related course at a higher level have found that design and technology is highly regarded by university admission tutors and that the approach to problem solving and communication which is developed within the course is transferable to other subjects.