

KS4 COURSE OPTIONS

Course Title	Product Design Y10
Course Description	<p><u>Explore, create, evaluate- projects</u> <u>Controlled assessment Year</u></p> <p>This year will be focussed on completed the controlled assessment worth 60% of the overall course. Students will choose from a range of projects pre-set by the AQA exam board. Controlled assessment will be an extended project looking at research, designing, modelling and making and evaluation.</p> <p>In addition to building on the year 9 skills Students will learn to.....</p> <ul style="list-style-type: none"> • understand the role that designers and product developers have, and the impact and responsibility they have on and to society; • consider the conflicting demands that moral, cultural, economic, and social values and needs can make in the planning and in the designing of products; • consider environmental and sustainability issues in designing products • test and evaluate the final design proposal against the design specification • have knowledge of Computer Aided Manufacture (CAM) and to use as appropriate; • anticipate and design for product maintenance where appropriate; • design for manufacturing in quantity and be aware of current commercial/industrial processes • reflect critically when evaluating and modifying their design ideas and proposals in order to improve the products throughout inception and manufacture; • ensure, through testing, modification and evaluation, that the quality of their products is suitable for intended users and devise modifications where necessary that would improve the outcome(s); • devise and apply test procedures to check the quality of their work at critical/key points during development, and to indicate ways of modifying and improving it when necessary; • select and use tools/equipment and processes to produce quality products; • consider the solution to technical problems in the design and manufacture process; • use tools and equipment safely with regard to themselves and others; • work accurately and efficiently in terms of time, materials and components; • manufacture products applying quality control procedures;

Course Content (Term 1,2,3 etc.)	2 lessons per week year 9-11
Extra-Curricular Opportunities	Lunchtimes are available for additional project work. Students have the opportunity to try different techniques that are not normally used within lessons. Outcome is to make small useful products for themselves or as a gift After school once a week will be available to complete additional work and have more workshop time.
Useful Websites	AQA GCSE product design
Important Information	Homework tasks include: Research and theory work to support class work and build resources that will be used in controlled assessment and the final exam as revision.
Provision For Most Able	EBI extension objectives provided every lesson. Students are encouraged to trial out tasks independently; students who complete the making of their product early are given an independent task to create an item to demonstrate the skills they have learnt over the course. Students are encouraged to develop more challenging projects and choose their own pathway or specialism.
Assessment	Students will assessed throughout the course against GCSE criteria.