

Holy Trinity School

A Church of England Secondary School



Product Design A Level Curriculum Guide

Design & Technology: Product Design



This course is an A Level Course.

MINIMUM SUBJECT ENTRY REQUIREMENTS (in addition to the general 6TH form minimum entry requirements of 5 x grade 4 at GCSE/equivalent or above including maths and English): GCSE grade 4 in Design and Technology (any specialism). Students who have a strong background in Art will also be considered.

In this course you can expect to develop your creative abilities by advancing your practical skills, designing skills and theoretical knowledge. You will investigate historical, social, cultural, environmental and economic influences on design and technology, whilst enjoying opportunities to put your learning into practice by producing products of your choice in your chosen specialist material area.

Exam Board Information:

EdExcel: Specification 9DT0 QAN code: 603/0697/X

50% coursework and 50% examination (1 paper)

Component 1: Principles of Design and Technology. Component 2: Independent Design and Make Project

Component 1 Topics:

Topic 1: Materials

Topic 2: Performance characteristics of materials

Topic 3: Processes and techniques

Topic 4: Digital technologies

Topic 5: Factors influencing the development of products

Topic 6: Effects of technological developments Topic 7: Potential hazards and risk assessment Topic 8: Features of manufacturing industries

Topic 9: Designing for maintenance and the cleaner environment

Topic 10: Current legislation

Topic 11: Information handling, Modelling and forward planning

Topic 12: Further processes and techniques.

PATHWAYS:

UNIVERSITY COURSES	APPRENTICESHIPS	WORLD OF WORK
3D Design and Craft	Some of the Advanced	This course will give you the
Aerospace Engineering,	apprenticeships available are:	confidence to succeed in a number of
Manufacturing Engineering,	Automotive Parts	careers, especially those in the
Automotive Engineering,	Medical Engineering	creative, engineering or
Architecture	Fire Testing Technician	manufacturing industries. To enter
Computer aided Engineering	Computer Aided Design	this field you will generally need
Construction Sustainable Design	Quality Engineering	further on the job training.
Creative Technology	Production Engineer	Creative Art worker
Design and Technology	Mechanical Engineering	Junior Book Cover Designer
Electronic Engineering	RAF apprenticeships: Avionics,	Junior Graphic Designer
Engineering Design	Survival Equipment, Aircraft	Junior CAD operator
Furniture	technician, General Technician.	Trainee Quantity Surveyor
Industrial Design	Mechanical Engineering: 3M UK	D&T School Technician
Interior Design	plc.	Trainee field operative vacancies
Materials Science and Energy	Higher Apprenticeships are	involving practical skills.
Engineering	available in the following:	
Mechanical Engineering	Automotive Engineering	The manufacturing sector is the 6 th
Product Design	Technology Retail	biggest employer in the UK,
Robotics and Automation	Electrical Engineering	employing over 3 million people.
Sustainable Product Design	Mechanical Engineering	
	Communication Infrastructure	

For further information or to ask questions, please contact: Mr O Pigott (Leader of Learning for Art, Design and Technology) or Mrs Chadwick opigott@holytrinitycrawley.org.uk

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