Carshalton Boys A level

Design & Technology (Product Design)

A level Design and Technology offers a unique opportunity in the curriculum for learners to identify and solve real problems by designing and making products. Design and technology is an inspiring, rigorous and practical subject. This specification encourages learners to use creativity and imagination when applying iterative design processes to develop and modify designs and to design and make prototypes that solve real world problems, considering their own and others needs, wants, aspirations and values.

A Level Design and Technology is the perfect choice for students looking to move on to various career paths including self-employment, apprenticeships or further education and is especially suitable for learners interested in pursuing university courses in all areas of design (graphic design, product/industrial design, interior design, staging and prop design etc.), engineering (mechanical, automotive, aeronautical etc.) and the built environment (architecture, civil engineering, and construction etc).

Maths skills and a knowledge and understanding of Science are fundamental to Design and Technology (Product Design).

ASSESSMENT and CONTENT

Component 1: (50% of the qualification) Design & Technology in the 21st Century: An externally assessed, 3 hour written exam out of 100 marks.
Calculators are needed to work out answers to several Maths & Science-based problems.

Component 2: (50% of the qualification) Independent Design & Make Project/ NEA:
Non-examined assessment, approx. 80 hours out of 100 marks
A sustained "design and make" project, based on a brief developed by the candidate, assessing the candidate's ability to:

- identify, investigate and outline design possibilities.
- design and make prototypes.
- analyse and evaluate design decisions and outcomes, including prototypes made by themselves and others.

The course requirements...

Grade 6 or higher in any Design & Technology GCSE (ie Product Design). Grade 6 in English and Grade 6 or higher in GCSE Maths.