Lancaster Royal Grammar School

Design & Technology Department overview

The Design and Technology Department at LRGS enjoys a high reputation both within and outside the school. A huge amount of success has been enjoyed by the boys in such areas as the Arkwright Scholarships as well as regional and national success in D&T related competitions including the Triumph design awards, National Lego league, Jaguar Land-Rover 4X4 challenge and the BAe Rotary Technology competition.

The department is situated in its' own building on the top site overlooking the cricket playing fields and the historic Williamson park. There are 3 spacious technology classroom/workshops, 2 x CAD suites, 6th form design studio and a central cutting room workshop area.
Food Technology is taught in a separate building, but our Food & Nutrition teacher is an integral part of the D&T team.

A-level results are strong with several boys scoring A* - A grade, whilst across the D&T GCSE suite, 27 boys scored A* in Technology options in 2017.

The department currently offers the following specifications:
A-level Product Design (3D) – AQA
GCSE Design & Technology – AQA
GCSE Food preparation and Nutrition – AQA
(we are also hoping to introduce an additional GCSE option in the near future)

The department is staffed by four full time technologists, supported by 2 full time technicians.

Design and Technology is taught at all key stages with all pupils at KS3 spending 2/3 of the year in D&T and the remaining 1/3 in the Food department. The D&T department is a dynamic and forward-thinking community with a desire to produce students who can progress into a future career in the design or engineering fields. We specialise in modern manufacture including 3D printing, CNC routing, Laser cutting and 3D virtual prototyping. We also firmly believe that a strong knowledge of fundamental hand skills and traditional manufacture underpin all the modern practices we have in place. Within each workshop you will find a vast range of equipment including 3 x Centre lathes, large milling machine, Chip Forge, Tilting Furnace, MIG welder, 2 x vacuum formers, 3 x pillar drills, 2 x vertical linishers, 2 x bandsaws, table saw, planer/thicknesser, wood lathe, PCB making facilities, steam chest, 3 x Makerbot 3D printers and large format vinyl cutter.
The department runs a range of trips and visits to enhance student learning including a bi-annual trip to Italy visiting the engineering plants at Ferrari, Lamborghini and Pagani.

All staff are encouraged to make an additional contribution to the life of the school which depends on their own interests. Possible areas include drama, music, sport, boarding duties and the combined cadet force.

The post holder's responsibility for promoting and safeguarding the welfare of children and young persons for whom s/he is responsible, or with whom s/he comes into contact will be to adhere to and ensure compliance with the school's Child Protection Policy Statement at all times. If, in the course of carrying out the duties of the post the post holder becomes aware of any actual or potential risks to the safety or welfare of children in the school s/he must report any concerns to the school's child protection officer or to the Headmaster.