



A-level Design & Technology: Product Design (3D)

Product Design at LRGS is a forward thinking and innovative course. We look to university and industry for our inspiration, encouraging students to seek out and solve real world problems as they would do during further study or in a future career.

All students are given a completely free choice in their coursework and are encouraged to investigate creative ways of solving problems through iterative 3D model production and virtual prototyping.

All students are trained in the most up to date CAD software available and taught advanced additive and subtractive manufacturing methods. Students are given the opportunity to download a copy of the software for home use. The department boasts four 3D printers, CNC routers and Laser cutters as well as a comprehensive heat treatment and metal forming area.

As part of the Product Design A-level, students are encouraged to enter local and national competitions.

We have had success at all levels including in the Rotary challenge tournament, which we have won on several occasions and the Triumph Design award where our students have been to the national finals on numerous occasions. One LRGS student won the national prize in 2019 with his design for a fire evacuation device inspired by the Grenfell tower disaster. Students are also encouraged to work with real life clients and follow industry standard practices in order to prepare them for university and the 'real world' of engineering and design.

What can Product Design lead to?

Many of our students go on to further study in a variety of related fields including: Product Design, Industrial Design, Motorsport Engineering, Aeronautical Engineering, Bio-Medical Engineering.

Exam board: AQA

Contact: Mr R Lemon, Head of Department

rlemon@lrqs.org.uk

Twitter: @LRGS_DT

**Lancaster Royal
Grammar School**

State Day and Boarding School for Boys Aged 11 to 18
Coeducational Sixth Form



SIXTH FORM

lrqs.org.uk



@LRGSLancaster



/LancasterRoyalGrammarSchool

Lancaster Royal Grammar School: A Company Limited by Guarantee. Registered in England: Company Number: 07469330.
Registered Office: Lancaster Royal Grammar School, East Road, Lancaster LA1 3EF