

Product Design & Engineering



**GEORGE
SALTER
ACADEMY**

Overview

The Product Design department at George Salter Academy is a successful department which is forward thinking in its delivery of Product Design at Key Stage 3, 4 and 5 and Engineering at Key Stage 5. Product Design and Engineering are taught in 2 specialist rooms that have access to 30 bookable laptops, which have wireless connections to the school network and the internet, this gives more flexibility in teaching 3D modelling CAD software such as Autodesk.

Vision

Our aims are to provide opportunities for pupils where they can enjoy turning ideas into reality and strive for successful outcomes. We aim to provide a learning environment where pupils can be creative and develop thinking skills, work independently and develop self esteem. It is our intension that pupils develop attitudes of curiosity, enquiry, initiative, ingenuity, resourcefulness as they experience a range of different material areas.

We have high expectations of all our students and lead by example. Our teachers Mr Taylor (Head of Department), Miss Bullock (Postholder-Product Design) and Mr Sanghera (Engineering) deliver Product Design and Engineering with a consistent and co-ordinated approach.

Study Support

The Product Design & Engineering Department offers a number of study support sessions for students across different year groups. Key Stage 4 and 5 students are well supported in preparation for their examinations with after school revision, twilight sessions, and holiday activities.

Extra Curricular Opportunities

We have a weekly Technology club that caters for Key Stage 3 pupils and a **STEM (Science, Technology, Engineering and Mathematics) club** for Key Stage 3, 4 and 5 pupils. We have run successful trips to RAF Cosford, Silverstone and CERN in Switzerland. There are further trips being planned which could see pupils travelling to exciting venues such as NASA in the USA.

Contact

Mr S. Taylor (Head of Department), email: s.taylor@georgesalter.com

Key Stage 3 (Years 7 and 8)

Product Design is taught across all key stages. In Year 7, The students have 2 lessons of 50 minutes each week as a double lesson. Students are taught in mixed ability groups of around 25. The Key Stage is divided into modules and the students rotate to experience the different materials areas utilising the specialist staff's experience and classroom resources. In Year 8, students have two lessons of Product Design a week and then pupils pick their option choices for Year 9.

Year 7

Projects include the Maze Game project, the Jewellery Box project, the Stationery Holder project

Year 8

Projects include the Sports Trophy project, the Balancing Toy project, the Mechanical Toy project and the Design Era Project.

Key Stage 4 (Years 9, 10 and 11)

Students can currently opt to study Resistant Materials, Graphic Products at GCSE. We deliver the courses via the AQA syllabus. Exam results have been very pleasing showing added value and are above national averages in all areas. The Department has now introduced the new Product Design course to Key Stage 3 and 4 as this keeps our students up-to-date with current design trends and helps prepare them for employment in the contemporary 21st Century design and make market.

Year 9

In Year 9, students start preparing the skills and units they need for GCSE Product Design so by the time they are in Years 10 and 11, they feel better prepared for the styles of exam questions and source analysis that are required at GCSE level.

Year 10 & 11

In Year 10 and 11 students start their GCSE Course. This is made up of a piece of design-and-make coursework (50%) and an exam (50%).

Exam results	2015	2016	2017
GCSE Product Design	76% A* - C	58% A* - C; 100% A* - G	38% A* - C; 100% A* - G

Table of Product Design Key Stage 4/ GCSE exam results 2015-2017

Post 16

At KS5, the Product Design & Engineering Department offers several courses.

Click on the links below for further information:

- **Design & Technology: Product Design - A Level**
- **Engineering - BTEC National Extended Certificate (equivalent to one A Level)**