

# LGGS SIXTH FORM



‘It’s a course which combines the practical and theoretical sides of the subject, giving you the opportunity to make a range of interesting things. The subject also allows you to discover new skills using your creative side.’

Year 13 Student

## DESIGN TECHNOLOGY Product Design



### COURSE OVERVIEW

HEAD OF DEPARTMENT: Mrs J Sandbach  
EXAM BOARD: OCR (H405 and H406)

Design and Technology is an inspiring, rigorous and practical subject. In formulating the new GCE in Product Design OCR has worked closely with Higher Education and industry to ensure that the direction of the qualification supports progression beyond A-level.

There is also a focus on ensuring the content reflects authentic practice, giving an insight into the way that creative industries function. The OCR specifications also require you to apply mathematical and scientific knowledge, understanding and skills and reflects the importance of Design and Technology as a pivotal STEM subject.

The subject content of this title is focused towards consumer products and applications; their analysis in materials, components, and marketability to understand their selection

## Extended Learning Opportunities for this Course

London visit to design exhibition

## Future Study Options and Career Pathways

- ◇ Architecture
- ◇ Product Design
- ◇ Marketing
- ◇ Gaming Design
- ◇ Dental technician
- ◇ Antiques valuation
- ◇ Fashion buyer
- ◇ Interior Design

“It opens lots of doors towards design in general and in architecture, fashion and marketing in particular. It helps you think ‘outside the box’. It’s a subject where the theory isn’t too difficult which makes it more fun.”

Year 13 Student



“The staff are always supportive and help guide me when I need advice or assistance.”

Year 13 Student

and uses in industrial and commercial practices of product development. The course will provide students with the opportunity to develop a range of investigative, research, analytical, modelling, designing and making skills that can be applied when solving problems.

The emphasis of the course is on the application of knowledge. It is intended that students will have the opportunity to learn through practical activities by producing multiple solutions to problems.

During the one or two year course you will study a range of materials, you will develop a technical understanding of how products function and how they are made to appropriately support the design and manufacture of your own design solutions. You will learn about wider design principles and the affect of design on users and the world we live in. You will identify market needs and opportunities for new products, initiate and develop design solutions, and make and test prototypes/products. You will develop your subject knowledge, including how a product can be developed through the stages of prototyping, realisation and commercial manufacture.

You will develop a critical mind through enquiry and problem solving, exploration, creation and evaluation of iterative designs. OCR encourage freedom in approaches towards designing and making so as not to limit the possibilities of project work or the materials and processes being used.

The OCR content requires you to apply mathematical and scientific knowledge, understanding and skills. This content reflects the importance of Design and Technology as a pivotal STEM subject.

The course is delivered through a series of small mini projects throughout Year 12.

Year 13 focuses on Unit 1 the non-examined Her??/ Design Project followed by revision and exam preparation.

### Assessment: A-level

**Unit 1** A non-examined ‘Iterative Design Project’  
50% of the A-level qualification.

You will be required to identify a design opportunity or problem from a context of your own choice, and create a chronological portfolio supported by real-time evidence of your project development. Innovative approaches will be required resulting in a final prototype that can be tested against the user and the market.

**Unit 2** 1 Hour 30 minutes Examination paper.  
Worth 25% of the A-level qualification

It assesses analysis of existing products, technical knowledge and understanding of materials, product functionality, manufacturing processes and techniques and allows demonstration of an understanding of design thinking and wider issues that impact on the design and manufacturing.

**Unit 3** The ‘Unseen Challenge’ paper 2 hour 30 minutes.  
Worth 25% of the A-level qualification

Focusing on the application of knowledge, understanding and the skills of designing and manufacturing prototypes and products through a set design task, then reflecting on your design solution in relation to wider factors and other theoretical knowledge.

This qualification allows the possibility to complete an AS qualification in Year 12, while still studying for the A-level.

