



HEADLANDS SCHOOL
SINCE 1965

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A Level Design & Technology (Product Design)

Course Title: A Level Design & Technology (Product Design)	LARS/QAN Code: 9DT0
Level: Three	Awarding Organisation: Edexcel
Delivery: Classroom based	Start Date: 8/9/2020
Location: Headlands School	Url: http://www.headlandsschool.co.uk/
Cost: Covered by EFA funding	Duration: 2 years
Full-time or Part-time: Full-time	Attendance: Daytime
Who is the course for:	
<p>This qualification is intended for students who want to develop their creative skills, and create designs primarily for 3D products. Students must also want to refine their making skills, working with a range of materials by hand, machine and CAD/CAM - as well as understanding the technical aspects of the materials and processes being used. Students need to have an interest in the broader subject, for example design history and current issues e.g. impact of design on the environment.</p>	
Entry requirements:	
<p>Typical grades needed 5 x GCSE grade 5 and above, including a grade 6 in a strongly related subject (e.g. GCSE D&T, GCSE Art & Design 3D Design).</p>	
What you'll learn:	
<ul style="list-style-type: none"> • Refine your practical skills and use of materials • Performance characteristics of materials, fixings, finishes • Analytical study of existing products and key historical design movements and designers • Modelling using card, plastics, wood and other materials to produce 3D artefacts • Communication of design ideas through various media • Digital Technologies - Computer Aided Design and Computer Aided Manufacturing • Working knowledge of modern manufacturing systems • Awareness of the profound impact of technological activity on society and environment • Mathematical and scientific knowledge relevant to the subject <p>https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/design-technology-product-design-2017.html</p>	
How you'll learn:	
<p>Short skills based practical sessions including design skills and practical making skills. Extended design and make activities. Discussion based study around background theory.</p>	

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Students will be expected to spend additional hours per week outside of lesson time on independent study or research and practical workshop activities.

What you need to bring:

It is expected that students bring writing and basic drawing equipment; we will provide anything more specialised. We will provide materials for practical workshop sessions. For the final independent design & make project it might be that students want to bring in something specific of their own.

How you'll be assessed:

Students are assessed in two ways, each worth 50% of the qualification.

Component 1: Principles of Design and Technology - Written Exam

- An exam of 2 hours 30 minutes including short open questions, extended writing questions and some drawing.
- The exam focus will be on the evaluation of products, manufacturing processes, design philosophy, aesthetics, social and environmental impact of design.

Component 2: Independent Design and Make Project

- A substantial project, to test your skills in designing and making. Identifying a problem, research, design, making and evaluation.

Where next:

This course could lead to further study at degree level or HND/HNC and careers or apprenticeships in: Product/Industrial Design, Architecture and Construction, Graphic Design, Theatrical Design, Engineering, Technical Support, D&T Teaching.

This course also supports students in a wide range of other fields of study and employment where problem solving and practical skills are important.