

SUBJECT: A-Level Product Design	YEAR 12		
HEAD OF DEPARTMENT Mrs A Brogan			
GROUPING POLICY Year 12 and year 13 are taught separately			
Exam Board: AQA http://www.aqa.org.uk/subjects/design-and-technology/as-and-a-level/design-and-technology-product-design-7552			
<p>COURSE CONTENT</p> <p>A-level Design and Technology: Product Design requires students to engage in both practical and theoretical study. This requires students to cover design and technology skills and knowledge in the following two areas:</p> <ul style="list-style-type: none"> ● Technical Principles <p>Areas covered include:</p> <table border="1" data-bbox="209 907 1385 1639"> <tr> <td data-bbox="209 907 794 1639"> Materials and their applications, Performance characteristics of material, Enhancement of materials, Forming, redistribution and addition processes, The use of adhesives and fixings, The use of finishes, Modern industrial and commercial practice, Digital design and manufacture, </td> <td data-bbox="794 907 1385 1639"> The requirements for product design and development, Health and safety Protecting designs and intellectual property Design for manufacturing, maintenance, repair and disposal, Feasibility studies, Enterprise and marketing in the development of products, Design communication, Modern manufacturing systems </td> </tr> </table> <ul style="list-style-type: none"> ● Designing and Making Principles <p>Areas covered include:</p>		Materials and their applications, Performance characteristics of material, Enhancement of materials, Forming, redistribution and addition processes, The use of adhesives and fixings, The use of finishes, Modern industrial and commercial practice, Digital design and manufacture,	The requirements for product design and development, Health and safety Protecting designs and intellectual property Design for manufacturing, maintenance, repair and disposal, Feasibility studies, Enterprise and marketing in the development of products, Design communication, Modern manufacturing systems
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Design methods and processes	Accuracy in design and manufacture
Design theory	Responsible design
How technology and cultural changes can impact on the work of designers	Design for manufacture and project management
Design processes	National and international standards in product design
Critical analysis and evaluation	
Selecting appropriate tools, equipment and processes	

How will my child’s work be assessed?

Paper 1 – Written exam
 Time - 2.5 hours
 Worth 30% A level

Paper 2 - Written exam
 Time - 1.5 hours
 Worth 20% A level

Non-Exam Assessment (NEA) - Design and Make project.
 45 hours long
 Worth 50% AS

Through a mixture of short answer and extended responses the question papers require you to

- Analyse and evaluate:
 - design decisions and outcomes, including for prototypes
 - wider issues in design and technology.

- : Demonstrate and apply knowledge and understanding of:
 - technical principles
 - designing and making principles.

Content for NEA

This is a design and make project where you will explore a context, design a product make and evaluate the product. The product context will be set by the exam board.