

Course information			
Year: 12 &13		Subject: A Level DT	
Subject	DT Product Design Resistant Materials	Subject Lead contact information	Mrs C Hankin Mr J Poote
Examination Board	Edexcel GCE	Specification Code	9DTO
Subject Content			
<p>Product Design is about equipping students with design skills for the future - Students will be able to recognise design needs and develop an understanding of how current global issues, including integrating technology, impacts on today's world.</p> <p>At A level students will have the confidence to innovate and produce creative design solutions as they develop their own design brief with a client / end user. The course encourages the development of creativity and innovation.</p>			
Additional Equipment Needed			
Students will need to provide or fund materials for the making challenges throughout the course.			
Assessment Details:			
<p>Written examination: 2 hours 30 minutes- 50% of the qualification 120 marks</p> <p>Component 1 Principles of Design and Technology Paper code; 9DT0/01</p> <p>Theoretical Assessment includes</p> <ul style="list-style-type: none"> Materials Performance characteristics of materials Digital Technologies Factors influencing the development of products Effects of technological developments Potential hazards and risk assessment Features of manufacturing industries Design for maintenance and a cleaner environment Current legislation Information handling, Modelling and planning Further processes and techniques <p>Non Examined Assessment</p> <p>Teacher assessed unit 50% of the qualification 120 marks</p> <p>Component 2</p> <p>Independent Design and Make Project: Paper code; 9DT0/02</p> <p>Assessment overview</p> <ul style="list-style-type: none"> Part 1- Identifying opportunities for design Part 2- Designing a Prototype Part 3 - Making a Prototype Part 4 - Evaluating own design and prototype 			
What can I do to support my child at home?			
<p>Specific advice for parents... What can they do to help us?</p> <ul style="list-style-type: none"> - Learn key words provided in class. - Provide a ... to help with homework - Discuss the topics that have been covered in class - in relation to what? Pros/cons etc... - Ask your child to explain what they have learnt today - Use 'Youtube'/ Media platforms to support DT specific learning 			

Recommended resources for the course:

Websites: www.technologystudent.com, www.bbc.com/bitesize, www.mr-dt.com,

Books: CGP Design and Technology Revision Guide ISBN 978 1 78294 752 3

EDEXCEL A Level Design & Technology Resistant Materials ISBN 978-0-435757-78-6

EDEXCEL A Level Design & Technology Graphic Products ISBN 978-0-435757-79-3

Both books will be required for this course. Second hand books may be available from 'Ebay, Amazon, Book Depository'.

Apps: Youtube videos 'How to.....'

Teaching Staff Contact Details

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Mr Poote	DT Teacher	jpote@cottesloe.bucks.sch.uk	01296 688264

Additional Information: Students will need to provide or fund materials throughout the course for the product they wish to design and make - Approximately £15 -20 per year. Drawing pens and a pack of coloured pencils are essential items for this course.