



## Year 11 Product Design Course Outline

<b>Students have 5 lessons per cycle/fortnight</b> <b>Homework is set once a week</b>			
Term	Topic and approximate duration	Key learning areas  Students should be able to:	Homework Options  Students will be guided by the class teacher as to which level to complete (according to target level)
Autumn	<b>GCSE NEA Coursework Contextual challenge</b> (8 weeks)	Students should be able to: continue to conduct relevant research specific to their client's needs; evaluate the properties of appropriate materials and the advantages and disadvantages of using them for products solutions; use research, write a design specification for the intended product; create a range of initial ideas and link their designs to client needs and specification.	Task 1 – Materials (worksheet) Task 2 – Anthropometrics and ergonomics (worksheet) Task 3 – Initial concept ideas with annotation. (worksheet) Task 4 – Smart materials (worksheet) Task 5 – Specifications Task 6 – Landmark Revision (worksheet).
	<b>Nature of landmark assessment</b>	Core Theory Knowledge – Exam style questions	
	<b>GCSE NEA Coursework Contextual challenge</b> (7 weeks)	Students should be able to: continue to refine initial ideas illustrating a range of drawing and manufacturing techniques; to develop ideas through the design stage, and evaluate them against the specification; show growth and development throughout the design stages; review the ideas from a personal perspective and client viewpoint; test ideas through a number of different tests.	Task 1. Initial ideas with annotation Task 2. Review of idea Task 3. Mock revision Task 4. Mock revision Task 5 – Mock revision Task 6 – Mock revision
	<b>Nature of landmark assessment</b>	Core Theory Knowledge – Exam style questions	

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Term	<b>Topic and approximate duration</b>	<b>Key learning areas</b>  <b>Students should be able to:</b>	<b>Homework Options</b> <b>Students will be guided by the class teacher as to which level to complete (according to target level)</b>
Spring	<b>GCSE NEA Coursework Contextual challenge</b> (7 weeks)	<b>Practical</b> Students should be able to: understand a wide range of workshop and industrial practises for the manufacture of products; produce a workshop diary on the manufacture of the product which includes process, photographs, health and safety and quality control.	Task 1. Annotation of final design. Task 2. CAD element of final design. Task 3. 3 <sup>rd</sup> Angle Orthographic of final design. Task 4. Cutting list Task 5 – Landmark Revision (worksheet).
	<b>Nature of landmark assessment</b>	Core Theory Knowledge – Exam style questions	
	<b>GCSE NEA Coursework Contextual challenge</b> (6 weeks)	<b>Practical</b> Students should be able to: continue to develop skills in workshop manufacture; develop products that include the manufacture of high-quality component parts, accurately assembled and well finished; develop a workshop diary that documents the different stages of production, showing what tools and materials have been used and to what effect.	Task 1. Workshop diary Task 2. Workshop diary Task 3. LCA Testing and Evaluate Task 4 – Landmark Revision (worksheet).
	<b>Nature of landmark assessment</b>	Core Theory Knowledge – Exam style questions	

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Term	Topic and approximate duration	Key learning areas  Students should be able to:	Homework Options Students will be guided by the class teacher as to which level to complete (according to target level)
<b>Summer</b>	<b>GCSE NEA Coursework Contextual challenge</b> (6 weeks)	<b>Practical</b> Students should be able to: continue to develop skills in workshop manufacture; develop products that include the manufacture of high-quality component parts, accurately assembled and well finished; develop a workshop diary that documents the different stages of production, showing what tools and materials have been used and to what effect.	Task 1 – LCA Testing and Evaluate Task 2 – Revision (worksheet). Task 3 - Revision (worksheet). Task 4 – Landmark Revision (worksheet).
	<b>Nature of landmark assessment</b>	Teacher assessment of coursework pages. Core Theory Knowledge – Exam style questions	
	<b>GCSE NEA Coursework Contextual challenge</b> (7 weeks)	Students should be able to understand how the examination questions will be presented and how to approach them; understand the requirements of the design and product analysis questions and how the marks are allocated; Full review of all topics	1. Past exam questions 2. Modelling of score answers 3. Peer assessment of extended writing Q's 4. Past exam Questions 5. Revision Catch up 6. Revision Catch up
	<b>Nature of landmark assessment</b>	Teacher assessment of Revision/Practise questions	