

SUBJECT	A Level Product Design		YEAR	12
<p>Why do we study Innovations - Design Technology? The curriculum in this subject provides students with the knowledge to think creatively in order to solve problems to meet the needs of society and the wider world.</p>				
What you have learned before		What you will learn this year	Where you can read more	
Create				
<p>NEA – develop a wide range of creative designs avoiding fixation.</p> <ul style="list-style-type: none"> Experiment with a wide range of 2d/3d drawing methods Include user feedback to modify designs Make an accurate prototype using appropriate specialist tools, equipment, materials and processes. Apply a suitable surface finish. Evidence your making skills Prototype testing and user testing 	<ul style="list-style-type: none"> 2d and 3d Communication techniques Iterative, user centred, the work of others Focused practical challenges working with specialist materials Select and use appropriate tools, equipment and processes accurately, applying quality control and safe working practices Develop and refine practical skills Model and test prototypes 	<ul style="list-style-type: none"> Sprint: How to Solve Big Problems and Test New Ideas in Just Five Days. Jake Knapp newdesign magazine www.designboom.com/ AQA AS/A-Level Design and Technology: Product Design 		
Evaluate				
<ul style="list-style-type: none"> Constantly analyse and evaluate throughout the design and make process. Evaluate against the specification. Modify your prototype in light of evaluations 	<ul style="list-style-type: none"> Critical analysis and evaluation throughout design & make activities, including products Third party testing and feedback used to inform design decisions and modifications. Evaluate against the brief and specification during design development and realisation 	<ul style="list-style-type: none"> AQA AS/A-Level Design and Technology: Product Design 		
Investigation				
<p>NEA – Section A and B – Investigation of exam board context</p> <ul style="list-style-type: none"> Design Brief and Specification. The specification must be measurable <p>Written exam Paper 1 preparation. Section A – Core technical principles. Section B – Specialist technical principles. Section C – Designing and making principles.</p> <p>Maths and Science application</p>	<ul style="list-style-type: none"> Applying Maths and Science knowledge Paper 1 – technical principles – materials & applications, performance characteristics, use of fixings, adhesives and finishes. Forming, redistribution and addition processes, health and safety, designing for manufacturing, maintenance, repair and disposal. Paper 2 – Designing and making principles - design processes, design theory, product life cycle, responsible design. Accuracy in design and manufacture Research and investigation self-guided learning tasks 	<ul style="list-style-type: none"> Essential Maths Skills for AS/A-Level Design and Technology AQA AS/A-Level Design and Technology: Product Design My Revision Notes: AQA A Level Design and Technology: Product Design 		

This creative and thought-provoking qualification gives students the practical skills, theoretical knowledge and confidence to succeed in a number of careers. Especially those in the creative industries.