

A 'level						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 12 Design and Technology: Product Design AQA – 4 hours per week						
Technical Principles 2 hours	Material Properties Paper and board <ul style="list-style-type: none"> • Performance • Application • Recycling CAD/CAM	Material Properties Polymers <ul style="list-style-type: none"> • Characteristics • Application • Stockform • Elastomers • Biodegradable 	Material Properties Timbers <ul style="list-style-type: none"> • Stock form • Performance • Testing • Finishing 	Material Properties Metals <ul style="list-style-type: none"> • Stock form • Performance • Testing 	Material Properties Composites Smart materials Modern materials Scale of manufacture	Requirements for product design and development Enterprise and marketing in the development of products Design communication
Skills	Cassagami house – using paper and boards. CAD design, electronics & soldering. <ul style="list-style-type: none"> • Forming • Shaping • Finishing 	Plastic bowl – heat forming, hand tools, testing and experimenting, sublimation printing. <ul style="list-style-type: none"> • Forming • Shaping 	Deck Chair – modelling, tools and machinery <ul style="list-style-type: none"> • Working with timber • Forming timber • Shaping timber 			3D drawing Orthographic Perspective
Designing and Making Principles 2 hours	Design methods and processes. Design influences, styles and movements. Designers and their work. Socio-economic influences	Major developments in technology Social/moral/ethical Product lifecycle	Responsible design Design process Critical analysis and evaluation	Selecting tools Accuracy	Health and safety Manufacturing maintenance, repair and disposal	NEA portfolio AO1 Section A – identifying design possibilities (20 marks)
Assessment	Baseline Test (GCSE level) Paper board assessment	Polymers assessment	Timbers assessment	Metals assessment MOCK exam	Composites assessment	Assessment of section A
Link to A 'level specification	https://filestore.aqa.org.uk/resources/design-and-technology/specifications/AQA-7552-SP-2017.PDF					

A 'level						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 13 Design and Technology: Product Design AQA – 4 hours per week						
NEA 3 hours	NEA Portfolio AO1 Section B – Design Brief and Specification (10 marks) AO2 Section C – Development of design proposal(s) (25 marks)	NEA Portfolio AO2 Section C – Development of design proposal(s) (25 marks) AO2 Section D – Development of design prototypes (25 marks)	NEA Portfolio AO2 Section D – Development of design prototypes (25 marks)	NEA Portfolio AO3 Section E – Analysing and Evaluation (20 marks)	External Exams	
Theory 1 hour	Maths		Exam revision Revision techniques PEEL Key terminology Exam question practice	Exam revision		
Assessment	NEA Assessment	Mock exam	NEA Assessment	Mock exam Hand in of NEA final Assessment		
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