



Design Technology KS5 Outline – A level AQA Product Design

	Term 1 Aug-Oct	Term 2 Nov-Dec	Term 3 Jan-Feb	Term 4 Mar-Apr	Term 5 Apr-May	Term 6 Jun-Jul
Year 12	<p>1.1.-1.5 Materials and their performance Techniques, finishes and processing materials</p> <p>KLT 1 Unit Review</p>	<p>1.1.-1.5 Materials and their performance Techniques, finishes and processing materials</p> <p>KLT 2 Unit Review</p>	<p>Emerging technologies affecting design industry. 1.8 The requirements for product design & development 1.9 Health & Safety 1.10 Protecting designs and intellectual property 1.12 Feasibility 1.13 Enterprise</p> <p>Year 12 PPE – Jan KLT3 Unit review</p>	<p>Design methods and processes</p> <p>1.14 Design communication CAD - Drawing</p> <p>KLT 4 Unit Review</p>	<p>2.5 Critical analysis evaluation CAD – SolidWorks</p> <p>Introduction to A level NEA</p>	<p>2.5 Critical analysis evaluation</p> <p>Contextual challenges finalised – A Level NEA Section A – Identifying & Investigating design possibilities (20 Marks)</p> <p>KLT 5 Unit Review</p>
Year 13	<p>2.1 Design methods and processes 2.3 New technology 2.6 Selecting appropriate tools, equipment & resources 2.7 Accuracy in design & manufacture</p> <p>Section B - Finalising a design brief and specification Deadline 15th Sept Section C – Development of design proposal (25 Marks) Deadline 20th Oct</p>	<p>2.2 Design Theory 2.3 Culture change 2.4 Design processes</p> <p>(Improvements to section C) Design development - proposals (25 Marks) Write up of work completed</p>	<p>2.5 Critical analysis evaluation 2.8 Responsible design 2.9 Design and manufacture for project management 2.10 National and international standards in product design</p> <p>Improvement and refinement of part A of section D. Write up of section D</p> <p>Design development – prototypes (25 marks) Development of final design proposals</p>	<p>4.4 Maths in PD Number & percentages Ratios Calculating surface area and volume Combining forms Comparing weights using density Area and volume scale factors 1.1-1.15 Revision of materials, manufacture, joining methods and finishes</p> <p>Section E – Analysis and evaluation (20 Marks)</p> <p>Improvements on Section C & D</p>	<p>Submission of Section E – Analysis & Evaluation</p> <p>Final submission of NEA 26/04/24</p> <p>4.4 Maths in PD Trigonometry Construction, use of analysis charts and graphs Co – Ordinates & geometry Statistics and probability</p> <p>Revision for Paper 1 & 2 Designing principles & technical principles</p>	N/A



			Development of final 3D prototype	Formal assessment on Paper 2 Technical principles		
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