Subject						
	Autumn 1	Autumn 2	Spring 3	Spring 4	Summer 5	Summer 6
	 Box design and manufacture ➢ Designing using a range of design strategies. ➢ Use workshop practices to realise designs/developments 	 Trophy design and manufacture Develop knowledge of designers Use of lay plan and assembly drawings in manufacture Use workshop practices to realise designs/developments 	 Trophy design and manufacture Develop knowledge of designers Use of lay plan and assembly drawings in manufacture Use workshop practices to realise designs/developments Core Develop a wide understanding of Design and Technology 	Core ➤ Develop a wide understanding of Design and Technology	 Casting Mould Project Develop knowledge of material properties Use of casting process in the realisation of a design Mechanisms Motion, CAMs, Followers, Links, Levers 	NEA – Responding to Live Assessment released by the exam board 1 st June.
Year 10	Core ➤ Develop a wide understanding of Design and Technology	 Design and Realisation Module Designing using a range of design strategies. Use workshop practices to realise a design/development 	 Design and Realisation Module Designing using a range of design strategies. Use workshop practices to realise a design/development 	 Investigating Contexts and Responding to Briefs ➢ Respond to a variety of contexts, by generating a range of design briefs. ➢ Develop research methods to inform future designing 	 Investigating Contexts and Responding to Briefs Respond to a variety of contexts, by generating a range of design briefs. Develop research methods to inform future designing 	NEA – Responding to Live Assessment released by the exam board 1 st June.
	 Systems Introduction ➢ Component Research, Circuit Design, ➢ PCB Development ➢ PCB Optimisation 	Realisation Module ➤ Manufacturing of an advanced PCB using workshop practices.	Core ➤ Develop a wide understanding of Design and Technology	 Designing with Systems Develop a broad understanding of systems Apply knowledge of systems to create a hydraulic and geared system outcome 	 Designing with Systems Develop a broad understanding of systems Apply knowledge of systems to create a hydraulic and geared system outcome 	NEA – Responding to Live Assessment released by the exam board 1 st June.

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	 R106 – Introduction / Preparation > Scales of Production > Processes > Research Techniques > Materials and Components 	R106 - Preparation R106 – Live Assessment Material Preparatory project	 R107 Preparation 2D and 3D Sketching Rendering and presentation techniques R107 Live Assessment Preparatory project 	 R107 Preparation CAD Techniques Annotation Techniques R107 Live Assessment Preparatory project 	 R108 Preparation > Interpreting Specifications > Planning and management techniques > Processes and Materials R108 Live Assessment Preparatory project 	R108 Live Assessment Preparatory project
	Assessment <u>Design and Technology</u> 2 x Timbers Socrative Tests 2 x Papers and Boards Socrative Tests 2 x Systems Socrative Tests		Assessment Spring 4 - Core Socrative Assessment for all strands of Design and Technology : Timbers, Papers and Boards, Systems Year 10 Mock Examination		Assessment AFL Practical Outcomes	
	NEA	NEA	NEA	NEA	NEA administration Revision – 1DT0/1F	
	NEA	NEA	NEA	NEA	NEA administration – Revision - 1DT0/1B	
Year 11	NEA	NEA	NEA	NEA	NEA administration – Revision - 1DT0/1D	
	R108 Live Assessment R105 Preparation Preparatory Project	R105 Preparation	Final Completion of internally assessed units	R105 Retake Revision Independent Projects	R105 Retake Revision Independent Projects	
	Assessment		Assessment		Assessment	
	Design and Technology 2 x Core Socrative Tests 2 x Timbers Socrative Tests 2 x Papers and Boards Socrative Tests 2 x Systems Socrative Tests		Design and Technology 2 x Core Socrative Tests 2 x Timbers Socrative Tests 2 x Papers and Boards Socrative Tests 2 x Systems Socrative Tests		Design and Technology 2 x Core Socrative Tests 2 x Timbers Socrative Tests 2 x Papers and Boards Socr 2 x Systems Socrative Tests	ative Tests

	AFL – Self Assessment of Cambridge National in Level 2 Engineering	Summative Assessment of GCSE Design and Technology Non-Examined Assessment
	Summative Assessment of Cambridge National in Level 2 Engineering Controlled Assessment	

Additional explanation if required. Design and Technology - Timbers Design and Technology - Papers and Boards Design and Technology - Systems Cambridge National in Engineering Level 2

Indicative Design and Technology NEA Coverage

Year 10 Summer 6 –	1.1 Investigation of needs and research
	1.2 Product specification
	2.1 Design ideas
Year 11 Autumn 1 –	2.1 Design ideas
	2.2 Review of initial ideas
	2.3 Development of design ideas into a chosen design
	2.4 Communication of design ideas
Year 11 Autumn 2 –	2.3 Development of design ideas into a chosen design
	2.4 Communication of design ideas

Year 11 Spring 3 – 2.5 Review of chosen design

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- 3.1 Manufacture
- 3.2 Quality and accuracy
- Year 11 Spring 4 2.5 Review of chosen design
 - 3.1 Manufacture
 - 3.2 Quality and accuracy
 - 4.1 Testing and evaluation
 - Sequence of Engineering dependent on rooming and may change.