

CURRICULUM MAP Year 11 sees the students complete their 'Non Examined Assessment' - A major piece of course work that is worth 50% of the final qualification. Students will utilize knowledge and skills acquired over the previous academic year to enable them to work independently.



ST JAMES'
CATHOLIC HIGH SCHOOL

							EOY Assessment Point	
							HT6: Overarching unit intent:	HT1 – HT6 <u>Key Disciplinary Knowledge</u> <u>Key Concepts</u>
			HT4:	Assessment Point: Summative or AFL	HT5 <u>Overarching unit intent:</u> • Core technical principles (Year 10): New and emerging technologies, Energy generation and storage, Developments in new materials, Systems approach to designing, Mechanical devices, Materials and their working properties.			
HT2:		Assessment Point: Summative or AFL	HT3: <u>Overarching unit intent:</u>	<u>Overarching unit intent:</u> • Designing and making principles (NEA): Selection of materials and components, Tolerances, Material management, Specialist tools and equipment, Specialist techniques and processes.	HT3 and HT4 (with elements of HT1 and HT2) NEA End of unit assessments Practice Paper <u>Key disciplinary knowledge</u> Core technical principles Designing and making principles Specialist technical principles <u>Key Concepts</u> • Core technical principles (Year 10): New and emerging technologies, Energy generation and storage, Developments in new materials, Systems approach to designing, Mechanical devices, Materials and their working properties. • Specialist technical principles: Selection of materials or components, Forces and stresses, Ecological and social footprint, Sources and origins of materials, Using and working with materials, Stock forms, types and			
HT1: <u>Overarching unit intent:</u>	<u>Overarching unit intent:</u> • Designing and making principles (NEA): Design strategies, Communication of design ideas, Prototype development. • Specialist technical principles: Ecological and social footprint, Sources and origins of materials.	HT1 & HT2 NEA End of unit assessments Practice Paper <u>Key disciplinary knowledge</u> Core technical principles Designing and making principles Specialist technical principles <u>Key Concepts</u> • Core technical principles (Year 10): New and emerging technologies, Energy generation and storage, Developments in new materials, Systems approach to designing, Mechanical devices, Materials and their working properties. • Specialist technical principles: Selection of materials or components, Forces and stresses, Ecological and social footprint, Sources and origins of	• Designing and making principles (NEA): Prototype development, Selection of materials and components, Tolerances, Material management, Specialist tools and equipment, Specialist techniques and processes. • Specialist technical principles: Using and working with materials, Stock forms, types and sizes, Scales of production.	• Specialist technical principles: Specialist techniques and processes, Surface treatments and finishes.	• Core technical principles (Year 10): New and emerging technologies, Energy generation and storage, Developments in new materials, Systems approach to designing, Mechanical devices, Materials and their working properties. • Specialist technical principles: Selection of materials or components, Forces and stresses, Ecological and social footprint, Sources and origins of materials, Using and working with materials, Stock forms, types and			



		<p>materials, Using and working with materials, Stock forms, types and sizes, Scales of production, Specialist techniques and processes, Surface treatments and finishes, Materials (Relevant to NEA task being completed)</p> <p>Designing and making principles are delivered through the NEA task</p> <p>Students must demonstrate skills in applying the knowledge of the designing and making principles to the six assessment areas;</p> <ul style="list-style-type: none"> • Researching and investigating (A) • Writing a design brief (B) • Generating ideas (C) • Developing ideas (D) • Realizing an idea (E) • Reflecting and evaluating (F) 			<p>sizes, Scales of production, Specialist techniques and processes, Surface treatments and finishes, Materials (Relevant to NEA task being completed)</p> <p>Designing and making principles are delivered through the NEA task</p> <p>Students must demonstrate skills in applying the knowledge of the designing and making principles to the six assessment areas;</p> <ul style="list-style-type: none"> • Researching and investigating (A) • Writing a design brief (B) • Generating ideas (C) • Developing ideas (D) • Realizing an idea (E) • Reflecting and evaluating (F) 	<p>and social footprint, Sources and origins of materials, Using and working with materials, Stock forms, types and sizes, Scales of production, Specialist techniques and processes, Surface treatments and finishes.</p>		
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