CURRICULUM MAP- Year 7 Book End

Resistant Materials: Students will develop a knowledge of a range of materials and have the opportunity to work with them to produce a selection of practical outcomes. They will learn about specific manufacturing tools and processes as well as developing specific technological drawing techniques.

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						Rotation Weeks 9 and 10 19 28 and 29 38 and 39	**EOR Assessment Point** ***Practical Assessment*** **Key Disciplinary Knowledge** Health and safety Cutting techniques Shaping techniques Joining techniques Finishing techniques Hand tools Fixed equipment Portable power tools Manufacture ***Key Concepts*** Students will be assessed on their ability to demonstrate the correct health and safety throughout the entirety of their project, demonstrate the correct and confident use of tools and equipment and use a range of techniques and processes to cut, shape, join and finish timber and plastic materials.
				Rotation Weeks: 7 and 8 17 and 18 26 and 27 36 and 37	Assessment Point: Summative or AFL	**Overarching unit intent:** **POLYMERS PRACTICAL** **Students will learn practical information around the key topics of:** **•Polymers** **Students will:** **• In practical sessions, develop skills, techniques and processes in relation to working with polymer based materials.** **• In practical sessions, develop their ability to use specialist technical equipment.** **• In practical sessions, develop their understanding of health and safety and specific regulations for working with tools and equipment** **• Through practical sessions, independently build their confidence and resilience levels as they work with specific materials.**
			Rotation Weeks: 5 and 6 15 and 16 24 and 25 34 and 35	**Overarching unit intent:** **DRAWING TECHNIQUES** **Students will learn theoretical and practical information around the key topics of:** **•Drawing in isometric and perspective.** • Details of basic drawing equipment. • How to draw in isometric **Students will:** **• In practical sessions, develop skills, techniques and processes in relation to drawing.** **• In practical sessions, develop their ability to use specialist technical equipment.**	***Design Assessment*** **Key disciplinary knowledge** Isometric perspective Colour rendering Annotation **Key Concepts** Students will be assessed on the presentation of their work, their creativity and innovation, their use of technical drawing skills (isometric), colour rendering and the quality of their annotation.	
		Assessment Point: Summative or AFL	**Overarching unit intent:** **POLYMERS THEORY** **Students will learn theoretical information around the key topics of:** **•Polymers** • Know the primary sources of materials for producing polymers. • Be able to recognise and characterise different types of polymers. • Understand how the physical and working properties of a range of polymers affect their performance.				
	Rotation Weeks: 3 and 4 13 and 14 22 and 23 32 and 33	***Literacy Assessment*** **Key disciplinary knowledge** Hardwood Softwood Manufactured Board Properties Tenon Saw Vice Lap Joint Air/ Kiln Seasoning Adhesive **Key Concepts** Students will be assessed on the correct spelling and their understanding of key vocabulary.				
Rotation Weeks: 1 and 2 11 and 12 20 and 21 30 and 31	**Overarching unit intent:** **TIMBER PRACTICAL** **Students will learn practical information around the key topics of:** **•Timbers – joints** **Students will:** **• In practical sessions, develop skills, techniques and processes in relation to working with timber based materials.** **• In practical sessions, develop their ability to use specialist technical equipment.**						
Overarching unit intent: **TIMBER THEORY** **Students will learn theoretical information around the key topics of:** **•Timbers** • Know the primary sources of materials for producing natural and manufactured timbers.							

With God all things are possible Matthew 19:26

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• Be able to recognise and characterise different types of natural and manufactured timbers. • Understand how the physical and working properties of a range of natural and manufactured timbers affect their performance. **Students will use a range of reading strategies:** **• Breakdown information** **• Visualisation** **• Learning new vocabulary** **• Prediction** **• Infer** **• Form opinions** **Writing skills will be developed in lesson and through home learning and assessment tasks.** **Students will be given opportunities to complete a range of focused extended writing tasks as well as opportunities to develop oracy via discussions and debate.**	**• In practical sessions, develop their understanding of health and safety and specific regulations for working with tools and equipment** **• Through practical sessions, independently build their confidence and resilience levels as they work with specific materials.**		**Students will use a range of reading strategies:** **• Breakdown information** **• Visualisation** **• Learning new vocabulary** **• Prediction** **• Infer** **• Form opinions** **Writing skills will be developed in lesson and through home learning and assessment tasks.** **Students will be given opportunities to complete a range of focused extended writing tasks as well as opportunities to develop oracy via discussions and debate.**				

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