

CURRICULUM MAP- Year 7 Puzzle Box

Resistant Materials: Throughout their Year 7 rotation students will develop a working knowledge of materials and use a range of tools, equipment and processes to design and make a puzzle box.



ST JAMES'
CATHOLIC HIGH SCHOOL

						EOR Assessment Point
						<u>Practical Assessment</u> <u>Key Disciplinary Knowledge</u>
					Rotation Weeks 9 and 10 19 28 and 29 38 and 39	Health and safety Cutting techniques Shaping techniques Joining techniques Finishing techniques Hand tools Fixed equipment Portable power tools Manufacture <u>Key Concepts</u> Students will be assessed on their ability to demonstrate the correct health and safety throughout the project, demonstrate the correct and confident use of tools and equipment and the overall quality of their finished product.
			Rotation Weeks: 5 and 6 15 and 16 24 and 25 34 and 35	Rotation Weeks: 7 and 8 17 and 18 26 and 27 36 and 37	Overarching unit intent: <u>Practical lesson</u> Students will develop skills and confidence using the pillar drill to make a mechanism for the lid of their puzzle box. Specific health and safety in relation to the pillar drill.	
	Rotation Weeks: 3 and 4 13 and 14 22 and 23 32 and 33	Assessment Point: Summative or AFL	Overarching unit intent: <u>Practical lesson</u> Students will develop skills and confidence using the scroll saw to manufacture their jigsaw. Specific health and safety in relation to the scroll saw.	Overarching unit intent: <u>Practical lesson</u> Students will assemble their puzzle box using a range of techniques that require the use of hand tools and basic hand tools. Specific health and safety in relation to adhesives and basic hand tools being used.	Testing and Evaluation Students will learn the importance of testing and evaluation within the design process and industry.	
Rotation Weeks: 1 and 2 11 and 12 20 and 21 30 and 31	Overarching unit intent: <u>Design development using SCAMPER.</u> Students will learn the importance of design development and use the SCAMPER technique to develop their ideas. Substitute Combine Adapt Modify Put to other use Erase Replace	Literacy Assessment <u>Key disciplinary knowledge</u> Development Substitute Combine Adapt Modify Erase Replace Technique Hazard Safety <u>Key Concepts</u> Students will be assessed on the correct spelling and their understanding of key vocabulary.	Overarching unit intent: <u>Practical lesson</u> Students will develop skills and confidence using a range of basic hand tools to construct the box for their puzzle. Specific health and safety in relation to the hand tools being used.	Overarching unit intent: <u>Practical lesson</u> Students will learn how to apply material preparation and finishing techniques. Specific health and safety in relation to the equipment and materials being used.	Careers Product testers <u>Catholic Social Teaching</u> Dignity Common Good Solidarity Dignity of Work and Participation	
Overarching unit intent: <u>Health and safety in the workshop.</u> Students will learn the importance of health and safety in the Resistant Materials workshop including health and safety rules and hazard signs and symbols. <u>Generate a range of creative design ideas.</u> Students will learn how to produce creative design ideas for their puzzle character.	Transfer of final design to MDF. Students will use a variety of techniques to transfer their final design onto their MDF.		Careers Graphic design <u>Catholic Social Teaching</u> Solidarity Creation and Environment Dignity of Work and Participation			

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<p>Careers Discussions on different industries/jobs where health and safety are extremely important.</p> <p>Catholic Social Teaching Dignity Common Good</p>	<p>Careers Discussions around what careers may need use creativity. Discuss the different types of creativity e.g. creative writing.</p> <p>Catholic Social Teaching Common Good</p>		<p>Creation and Environment Dignity of Work and Participation</p>			
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