

## CURRICULUM MAP- Year 8 Bird Box/ Bug House

**Resistant Materials:** Throughout their Year 8 rotation students will develop and continue to enhance their working knowledge of materials working with a range of tools, equipment and processes to manufacture a bird box or bug house. Students in this rotation will follow the design process and learn about sustainability.



# ST JAMES'

CATHOLIC HIGH SCHOOL

							EOR Assessment Point
							<b>Practical Assessment</b> <b>Key Disciplinary Knowledge</b> Health and safety Cutting techniques Marking out Joining techniques Finishing techniques Hand tools Fixed equipment  <b>Key Concepts</b> 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 9 and 10 19 28 and 29 38 and 39	
				Rotation Weeks: 7 and 8 17 and 18 26 and 27 36 and 37	Assessment Point: Summative or AFL	<u>Overarching unit intent:</u>  Manufacture of the bird box/ bug house • Finishing Techniques	
			Rotation Weeks: 5 and 6 15 and 16 24 and 25 34 and 35	<u>Overarching unit intent:</u>  Manufacture of the bird box/ bug house • Product Assembly  <b>Practical lesson</b> Students will develop skills and confidence using a range of basic hand tools and adhesives to assemble their bird box/ bug house. Specific health and safety in relation to basic hand tools and adhesives used.	<b>Design Assessment</b>  <u>Key disciplinary knowledge</u> Isometric drawing skills Colour rendering Annotation  <u>Key Concepts</u> Students will be assessed on the presentation of their work, their creativity and innovation, their use of technical drawing skills (perspective), colour rendering and the quality of their annotation.		
	Rotation Weeks: 3 and 4 13 and 14 22 and 23 32 and 33	Assessment Point: Summative or AFL	<u>Overarching unit intent:</u>  Manufacture of the bird box/ bug house • Producing main structure  <b>Practical lesson</b> Students will develop skills and confidence using a range of basic hand tools, jigs, belt sander and pillar drill to manufacture their bird box/ bug house. Specific health and safety in relation to basic hand tools, jigs, belt sander and pillar drill.				
Rotation Weeks: 1 and 2 11 and 12 20 and 21 30 and 31	<u>Overarching unit intent:</u>  <b>Drawing and Design Techniques</b> • Isometric drawing • Colour rendering  <b>Design:</b> Students will generate a range of ideas for their Bird Box/ Bug House. Students will learn how to draw in isometric as well as how to annotate and colour render.	<b>Literacy Assessment</b>  <u>Key disciplinary knowledge</u> Isometric Sustainability Renewable Recycle Environment Specification Analysis Manufacture Consumer Annotate  <u>Key Concepts</u> Students will be assessed on the correct spelling and their understanding of key vocabulary.					
<u>Overarching unit intent:</u>  <b>Health and safety in the workshop.</b> Students will learn the importance of health and safety in the Resistant Materials workshop including health and safety rules and hazard signs and symbols.  <b>Research</b> • Task analysis						Evaluation • Literacy skills • Further modifications • Design evolution • Product Testing  <b>Evaluation:</b> Students will use literacy skills to evaluate their practical work. Students will use the ACCESSFM technique to support them in completing this task. Students will learn the importance of evaluation through	

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<ul style="list-style-type: none"> <li>• Sustainability</li> <li>• Specifications</li> </ul> <p><b>Research:</b> Students will develop their literacy skills by writing a design specification for the product they want to make. Students will do this by using the technique ACCESSFM: Aesthetics Cost Consumer Environment Safety Size Function Materials</p>						discussions around product evolution.	
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