

CURRICULUM MAP- Year 8 Insect Haven

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 an insect haven. Students in this rotation will follow the design process and learn about sustainability.



ST JAMES'
CATHOLIC HIGH SCHOOL

						EOR Assessment Point
						<p>Practical Assessment Key Disciplinary Knowledge</p> <p>Health and safety Cutting techniques Marking out Joining techniques Finishing techniques Hand tools Fixed equipment</p> <p>Key Concepts</p> <p>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.</p>
				<p>Rotation Weeks: 7 and 8 17 and 18 26 and 27 36 and 37</p> <p>Overarching unit intent:</p> <p>Manufacture of the bird box/ bug house</p> <ul style="list-style-type: none"> Product Assembly 	<p>Rotation Weeks 9 and 10 19 28 and 29 38 and 39</p> <p>Overarching unit intent:</p> <p>Manufacture of the bird box/ bug house</p> <ul style="list-style-type: none"> Finishing Techniques 	
	<p>Rotation Weeks: 3 and 4 13 and 14 22 and 23 32 and 33</p>	<p>Assessment Point: Summative or AFL</p>	<p>Rotation Weeks: 5 and 6 15 and 16 24 and 25 34 and 35</p> <p>Overarching unit intent:</p> <p>Manufacture of the bird box/ bug house</p> <ul style="list-style-type: none"> Producing main structure 	<p>Overarching unit intent:</p> <p>Manufacture of the bird box/ bug house</p> <ul style="list-style-type: none"> Product Assembly 	<p>Practical lesson</p> <p>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.</p>	
<p>Rotation Weeks: 1 and 2 11 and 12 20 and 21 30 and 31</p> <p>Overarching unit intent:</p> <p>Health and safety in the workshop.</p> <p>Students will learn the importance of health and safety in the Resistant Materials workshop including health and safety rules and hazard signs and symbols.</p> <p>Research</p> <ul style="list-style-type: none"> Task analysis Sustainability Specifications <p>Research:</p>	<p>Overarching unit intent:</p> <p>Drawing and Design Techniques</p> <ul style="list-style-type: none"> Isometric drawing Colour rendering <p>Design:</p> <p>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.</p> <p>Careers</p> <p>Careers that require technical drawing skills.</p> <p>Catholic Social Teaching</p> <p>Common Good</p>	<p>Literacy Assessment</p> <p>Key disciplinary knowledge</p> <p>Isometric Sustainability Renewable Recycle Environment Specification Analysis Manufacture Consumer Annotate</p> <p>Key Concepts</p> <p>Students will be assessed on the correct spelling and their understanding of key vocabulary.</p>	<p>Practical lesson</p> <p>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.</p> <p>Careers</p> <p>Careers in quality control.</p> <p>Catholic Social Teaching</p> <p>Solidarity Creation and Environment Dignity of Work and Participation</p>	<p>Practical lesson</p> <p>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.</p> <p>Careers</p> <p>Assembly Engineers</p> <p>Catholic Social Teaching</p> <p>Solidarity Creation and Environment Dignity of Work and Participation</p>	<p>Evaluation</p> <ul style="list-style-type: none"> Literacy skills Further modifications Design evolution Product Testing <p>Evaluation:</p> <p>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 discussions around product evolution.</p> <p>Careers</p>	

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<p>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:</p> <ul style="list-style-type: none"> Aesthetics Cost Consumer Environment Safety Size Function Materials <p>Careers The role of a health and safety inspector</p> <p>Catholic Social Teaching Dignity Common Good Option for the Poor Creation and Environment</p>	<p>Creation and Environment</p>				<p>Dyson Product Testing</p> <p>Catholic Social Teaching Dignity Common Good Solidarity Creation and Environment Dignity of Work and Participation</p>	
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