

Term 1 & 3 Wood

Week	Unit	Learning Focus	Victorian Curriculum Substrands
1	Storage Unit	<p>Introduce the project to the class, provide a completed example of a Storage Unit</p> <p>Identify the variety of timber that is available and discuss the reasons for selecting certain timber for specific purposes e.g. strength, colour, stability.</p> <p>Demonstrate cupping, bows, twists and other defects.</p> <p>Demonstrate techniques used to overcome these problems.</p> <p>List an outline of the folio requirements and discuss the expected standard.</p> <p>Identify project requirements, address the design situation and develop a personalised design brief.</p> <p>Title page.</p> <p>Storage designs. Discuss factors that affect quality design – form and function.</p> <p>Discuss industry terms e.g. Nominal, DAR. Begin developing a glossary of terminology.</p>	<p>STRAND Technologies and Society</p> <p>Examine and prioritise competing factors including social, ethical economic and sustainability considerations in the development of technologies and designed solutions to meet community needs for preferred futures.</p>
2		<p>Demonstrate the correct method of setting out and cutting housing joints.</p> <p>Students make a practice joint</p> <p>Demonstrate the safe use of a belt sanding machine.</p> <p>Begin initial design sketches by hand.</p> <p>Complete an orthogonal drawing, of a standard design. Ensure the use of an accurate scale, dimension lines and titles.</p>	<p>STRAND Technologies and Society</p> <p>Investigate the ways in which designed solutions evolve locally, nationally, regionally and globally through the creativity, innovation and enterprise of individuals and groups.</p>

3		<p>Provide students with timber for selection. Set out and cut timber to length. Discuss identifying and marking face side and edge. Demonstrate correct use of tenon saw for cross cutting. Finalise design and justify the selection. Complete an orthogonal drawing to scale, with dimensions.</p>	<p>STRAND Creating Designed Solutions Generating Generate, develop and test design ideas, plans and processes using appropriate technical terms and technologies</p>
		<p>Gauge timber to correct width and plane. Complete a cutting list.</p>	<p>STRAND Technologies Contexts Materials and technologies specialisations Analyse ways to create designed solutions through selecting and combining characteristics and properties of materials, systems, components, tools and equipment</p>
4-5		<p>Mark out housing joints on material and begin cutting. Ensure the correct use of: marking gauge, tenon saw and correct chisels.</p>	<p>STRAND Creating Designed Solutions Producing Effectively and safely use a broad range of materials, components, tools, equipment and techniques to produce designed solutions</p>
		<p>Finish housing joints before marking out. Make sure correct fitting and alignment of joints. Discussion on the mechanical strength of various joining methods e.g. mortice and tenon, dowel, biscuit, screw.</p>	<p>STRAND Creating Designed Solutions Producing Effectively and safely use a broad range of materials, components, tools, equipment and techniques to produce designed solutions</p>
		<p>Demonstrate how to accurately saw the housing joints. Cutting the cheeks first then the shoulders. Cut the cheek cuts following the correct method and pare with a chisel to fit.</p>	<p>STRAND Creating Designed Solutions Producing Effectively and safely use a broad range of materials, components, tools, equipment and techniques to produce designed solutions</p>
6-8		<p>Dry fit the frame then once joints fit accurately, glue and clamp. Check the frame is square and flat. Work Method Statement</p>	<p>STRAND Creating Designed Solutions Producing Effectively and safely use a broad range of materials, components, tools, equipment and techniques to produce designed solutions</p>

		Cut, attach or shape any design modifications according to the project drawings.	STRAND Creating Designed Solutions Producing Effectively and safely use a broad range of materials, components, tools, equipment and techniques to produce designed solutions
		Plane and sand frame to shape ensuring the face and back is flat and square.	STRAND Creating Designed Solutions Producing Effectively and safely use a broad range of materials, components, tools, equipment and techniques to produce designed solutions
		Final sanding and finishing of the storage Unit. Apply finishing coats. Class discussion and investigation into alternative method of finishing and protecting timber.	STRAND Technologies and Society Investigate the ways in which designed solutions evolve locally, nationally, regionally and globally through the creativity, innovation and enterprise of individuals and groups.
		In-class research assessment on deforestation and sustainable logging. Discuss deforestation, sustainable logging and the effects of these on the economic and ecological environment.	STRAND Creating Designed Solutions Evaluating Independently develop criteria for success to evaluate design ideas, processes and solutions and their sustainability
9		Self-evaluation of the finished project	STRAND Creating Designed Solutions Evaluating Independently develop criteria for success to evaluate design ideas, processes and solutions and their sustainability
10		Discuss and demonstrate various methods of hanging or standing the Storage Container. Storage Unit and Project Folio is submitted for marking.	STRAND Creating Designed Solutions Evaluating Independently develop criteria for success to evaluate design ideas, processes and solutions and their sustainability