

# Woodworking I: Assembly and Finishes

Stage 1 Desired Results		
<p>ESTABLISHED GOALS:</p> <p><u>Competencies:</u></p> <ul style="list-style-type: none"> <li>• <i>Students will demonstrate the ability to safely and properly select, use and maintain equipment, materials, and processes in order to avoid injury and harm.</i></li> <li>• <i>Students will demonstrate the ability to effectively plan and complete a project in order to develop a solid work ethic, and to accept individual responsibility.</i></li> <li>• <i>Students will demonstrate the ability to apply critical thinking and problem solving in order to meet given expectations.</i></li> <li>• <i>Students will demonstrate the ability to analyze and summarize text and integrate knowledge to make meaning of discipline-specific materials.</i></li> <li>• <i>Students will demonstrate the ability to produce coherent and supported writing in order to communicate effectively for a range of discipline-specific tasks, purposes, and audiences.</i></li> <li>• <i>Students will demonstrate the ability to speak purposefully and effectively by strategically making decisions about content, language use, and discourse style.</i></li> </ul> <p><u>Content Standards</u></p> <p>New Hampshire Vocational Curriculum guide</p> <ul style="list-style-type: none"> <li>• Standard 1: Students will develop an understanding of the characteristics and scope of technology.</li> <li>• Standard 2: Students will develop an understanding of the core concepts of technology.</li> <li>• Standard 8: Students will develop an understanding of the attributes of design.</li> <li>• Standard 9: Students will develop an understanding of engineering design.</li> <li>• Standard 10: Students will develop an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.</li> <li>• Standard 11: Students will develop the abilities to apply the</li> </ul>	<i>Transfer</i>	
	Students will be able to independently use their learning <i>to research, plan and complete a project.</i>	
	<i>Meaning</i>	
	<p>ENDURING UNDERSTANDINGS</p> <p><i>Students will understand that...</i></p> <ul style="list-style-type: none"> <li>• thorough research will affect the outcome of a project.</li> <li>• reading and interpreting plans is an important part of the design process.</li> <li>• accuracy will affect the outcome of a project.</li> <li>• there are a variety of tools and techniques a woodworker can use to create a desired product.</li> </ul>	<p>ESSENTIAL QUESTIONS</p> <ul style="list-style-type: none"> <li>• How do different assembly techniques affect the structural integrity of a project?</li> <li>• What defines “good” surface preparation?</li> </ul>
	<i>Acquisition</i>	
<p><i>Students will know...</i></p> <ul style="list-style-type: none"> <li>• that problem solving consists of troubleshooting, research and development, and experimentation.</li> <li>• the importance of reading and understanding plans.</li> <li>• the specific techniques and equipment associated with:                             <ul style="list-style-type: none"> <li>○ Nailing.</li> <li>○ Screwing.</li> <li>○ Plugging.</li> <li>○ Gluing.</li> <li>○ Wood Joints.</li> <li>○ Filing.</li> <li>○ Planning.</li> <li>○ Sanding.</li> <li>○ Staining.</li> </ul> </li> </ul>	<p><i>Students will be skilled at...</i></p> <ul style="list-style-type: none"> <li>• using the core concepts of technology.</li> <li>• utilizing all aspects of problem solving.</li> <li>• selecting and using energy and power technologies.</li> <li>• identifying the attributes of design and applying the design process.</li> <li>• using and maintaining technological products and systems.</li> <li>• selecting and using manufacturing and construction technologies.</li> <li>• choosing and executing the appropriate processes for :                             <ul style="list-style-type: none"> <li>○ Performing a dry run assembly.</li> <li>○ Inserting and remove nails.</li> <li>○ Inserting and removing screws.</li> <li>○ Plugging a hole.</li> <li>○ Gluing lumber together.</li> <li>○ Assembling wood joints.</li> <li>○ Filing a board or project.</li> </ul> </li> </ul>	

<p>design process.</p> <ul style="list-style-type: none"> <li>Standard 12: Students will develop the abilities to use and maintain technological products and systems.</li> <li>Standard 13: Students will develop the abilities to assess the impact of products and systems.</li> <li>Standard 19: Students will develop an understanding of and be able to select and use manufacturing technologies</li> <li>Standard 20: Students will develop an understanding of and be able to select and use construction technologies.</li> </ul>	<ul style="list-style-type: none"> <li>Stain choices.</li> <li>Clear coating.</li> </ul> <p><u>vocabulary</u>: board foot, design, layout, crosscut, rip, kerf, bevel, specific tool names, specific joint names, countersink, counter bore, adhesion, adhesive, lamination. Refinishing, glue, sandpaper grit</p>	<ul style="list-style-type: none"> <li>Planing a board.</li> <li>Sanding a board or project.</li> <li>Staining a project.</li> <li>Clear coating a project.</li> </ul>
<b>Content Area Literacy Standards</b>		<b>21<sup>st</sup> Century Skills</b>
<p>RST.9-10.1 Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.</p> <p>RST.9-10.5 Analyze the structure of the relationships among concepts in a text, including relationships among key terms (e.g., <i>force, friction, reaction force, energy</i>).</p> <p>WHST.9-10.2 Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.</p> <p>WHST.9-10.4 Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.</p>		<ul style="list-style-type: none"> <li>Use and manage information</li> <li>Apply technology effectively</li> <li>Be self-directed learners</li> <li>Interact with others</li> <li>Solve problems</li> </ul>

<b>Stage 2 - Evidence</b>	
<b>Evaluative Criteria</b>	<b>Assessment Evidence</b>
	OTHER EVIDENCE:

<b>Stage 3 – Learning Plan</b>	
<b>Language Arts Integration</b>	<b>Mathematics Integration</b>
<ul style="list-style-type: none"> <li>1.OA.1 Use</li> </ul>	<ul style="list-style-type: none"> <li>1.OA.1 Use</li> </ul>

<b><i>Technology Integration</i></b>	<b><i>District Materials</i></b>
<ul style="list-style-type: none"><li>• 1.OA.1 Use</li></ul>	