

Woodworking I: Methods and Materials

Stage 1 Desired Results		
<p>ESTABLISHED GOALS:</p> <p><u>Competencies:</u></p> <ul style="list-style-type: none"> Students will demonstrate the ability to safely and properly select, use and maintain equipment, materials, and processes in order to avoid injury and harm. Students will demonstrate the ability to identify technological progressions and their applications in order to select appropriate processes for a given task. Students will demonstrate the ability to recognize academic concepts and practice in technological settings in order to connect academic and vocational areas of study. Students will demonstrate the ability to analyze and summarize text and integrate knowledge to make meaning of discipline-specific materials. 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. Students will demonstrate the ability to speak purposefully and effectively by strategically making decisions about content, language use, and discourse style. <p><u>Content Standards</u></p> <p>New Hampshire Vocational Curriculum guide:</p> <ul style="list-style-type: none"> Standard 1: Students will develop an understanding of the characteristics and scope of technology. Standard 2: Students will develop an understanding of the core concepts of technology. Standard 3: Students will develop an understanding of the relationships among technologies and the connections between technology and other fields of study. Standard 4: Students will develop an understanding of the cultural, social, economic, and political effects of technology. Standard 5: Students will develop an understanding of the effects of technology on the environment. Standard 6: Students will develop an understanding of the role of society in the development and use of technology. Standard 7: Students will develop an understanding of the influence of technology on history. Standard 12: Students will develop the abilities to use and maintain technological products and systems. 	<i>Transfer</i>	
	<p><i>Students will be able to independently use their learning to use appropriate technology and processes to complete a project.</i></p>	
	<i>Meaning</i>	
	<p>ENDURING UNDERSTANDINGS</p> <p><i>Students will understand that...</i></p> <ul style="list-style-type: none"> reading and interpreting plans is an important part of the design process. accuracy will affect the outcome of a project. there are a variety of tools and techniques a woodworker can use to create a desired product. creative, critical thinking, and problem solving skills are needed to function successfully as both global citizen and workers in diverse ethnic and organizational cultures. 	<p>ESSENTIAL QUESTIONS</p> <p>What does a project tell you about the creator?</p> <p>What if technologies never progressed?</p>
<i>Acquisition</i>		
<p><i>Students will know.....</i></p> <ul style="list-style-type: none"> that each tool has a specific purpose . that different types of woods have different properties and have different purposes. that tools and technologies have changed over time. the environmental impacts of current manufacturing technologies. the importance of following plans and procedures. that there are specific techniques and tools associated with: <ul style="list-style-type: none"> reading and interpret plans. laying out projects. measurement. 	<p><i>Students will be skilled at...</i></p> <ul style="list-style-type: none"> Connecting academic and technical subjects. identifying the core concepts of technology. identifying changes in technology over time. identifying the impact of technology on the environment. using and maintaining technological products and systems. selecting and using manufacturing and construction technologies. identifying how woodworking tools and processes affect a task or technique. Demonstrating proper safety, form and function of hand tools, power tools, and machines. Describing properties of lumber. 	

<ul style="list-style-type: none"> Standards 13: Students will develop the abilities to assess the impact of products and systems. Standard 19: Students will develop an understanding of and be able to select and use manufacturing technologies Standard 20: Students will develop an understanding of and be able to select and use construction technologies. 	<ul style="list-style-type: none"> hand vs power tool. crosscutting/ripping. wood joints. clamping. gluing <p><u>vocabulary:</u> board foot, design, layout, crosscut, rip, kerf, bevel, specific tool names, specific joint names, countersink, counter bore, adhesion, adhesive, lamination,</p>	<ul style="list-style-type: none"> Researching project designs and interpreting project plans. Following a given procedure. Marking up lumber according to project specifications. Manipulating fractions. Choosing the proper techniques and tools to achieve the desired outcome. Using squaring equipment. Gluing.
Content Area Literacy Standards		21st Century Skills
<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</i>, <i>friction</i>, <i>reaction force</i>, <i>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"> <i>Use and manage information</i> <i>Apply technology effectively</i> <i>Be self-directed learners</i> <i>Interact with others</i> <i>Solve problems</i>

Stage 2 - Evidence

Evaluative Criteria	Assessment Evidence
	OTHER EVIDENCE:

Stage 3 – Learning Plan

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