

Vocational Studies: Intro to Voc Studies

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>Students will be able to independently use their learning to distinguish the appropriate technologies and processes needed to complete a given project.</p>	
	<i>Meaning</i>	
	<p>ENDURING UNDERSTANDINGS</p> <p><i>Students will understand that...</i></p> <ul style="list-style-type: none"> accuracy will affect the outcome of a project. there are specific tools and techniques that vary depending on the course of study. 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> <ul style="list-style-type: none"> Is technological progress good for all trades? Does improved technology mean easier work?
	<i>Acquisition</i>	
<p><i>Students will know...</i></p> <ul style="list-style-type: none"> that each vocational path has its own specific skill set. that each tool has a specific purpose . that tools and technologies have changed over time. the environmental impacts of current manufacturing technologies. the importance of following plans and procedures. that safety practices may vary depending on the vocation. the building skills necessary for construction, masonry, metalwork and plumbing. the materials needed for the paths above and how they are used. the basic concepts of electrical theory, plumbing, masonry, power and energy, 	<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 job specific tools and processes affect a task or technique. demonstrating proper safety, form and function of hand tools, power tools, and machines. making educated decisions about their future in the vocational areas. Installing electrical equipment, framing 	

<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. 	<p>cam/cad/metallurgy</p> <ul style="list-style-type: none"> the career opportunities and requirements needed to make informed and meaningful choices in their education/employment in technical occupations. the relationship between academic concepts and practices to their applications in a technological setting. the effects of technology's development on society through time. and how they've developed to satisfy human needs and wants. <p><u>vocabulary</u>: Trade vocabulary Specific for each area.</p>	<p>construction, plumbing, hvac to code.</p> <ul style="list-style-type: none"> problem solving.
<p>Content Area Literacy Standards</p>		<p>21st Century Skills</p>
<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>Reason effectively</i> <i>Use system thinking</i> <i>Solve problems</i> <i>Communicate clearly</i> <i>Collaborate with others</i>

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

Stage 3 – Learning Plan

Summary of Key Learning Events and Instruction

- Teacher led discussions on safety and hand/power tool usage
- Practice new skillsets on hand and power tools
- Create a safety and operations worksheet outlining the function of given tools
- Demonstrate proper tool usage
- Student presentations and modeling of shop safety /hand/power tool usage

Language Arts Integration

- 1.OA.1 Use

Mathematics Integration

- 1.OA.1 Use

Technology Integration

- 1.OA.1 Use

District Materials