

# Jefferson School District

## Curriculum Map for Career and Technical Education

**Overarching Goal of the Curricular Area: Students will be able to select and apply architecture, construction and manufacturing technologies.**

**Grade(s) 9-12      Course - Woods 1**

<b>Unit Theme</b>	<b>Lab/Shop Safety</b>	<b>Measurement and Layout</b>	<b>Tools &amp; Machines</b>	<b>Materials &amp; Project Design</b>	<b>Projects</b>
<b>Unit Goal</b>	Students will apply safety techniques to woodworking activities	Students will apply the knowledge of measuring and layout tools with precision and accuracy.	Student will perform effectively the usage of all tools and machines in the woodshop	Students will apply design principles to a woodworking project and follow steps to build their design	Students will use a designed woodworking project as a set of plans to complete a project build.
<b>Enduring Understandings</b>	Students will understand the importance of safety procedures	Students will understand the key skills for measuring and layout.	Students will understand the safe and appropriate use of all machines and tools.	Students will understand the steps to design and build a complete project.	Students will understand the procedures needed to complete a project through various steps.
<b>Essential Questions</b>	<p>How will I use the safety procedures to create a safe working environment for myself and others?</p> <p>How do I select the proper tool for the job to prevent injury?</p>	<p>How will I select and use measuring tools to layout work and set up machines?</p> <p>How do I use a variety of measurement tools and complete various measurements</p>	<p>How will I choose the best machine or tool for the task?</p> <p>How will I use the machine or tool for more than one task?</p>	<p>How will I use my knowledge of drafting and design to create a working drawing of a project</p> <p>How will I use the elements of design to create a working drawing?</p>	How will I use my knowledge of drafting and design to manufacture and build a project from a working drawing?
<b>Standards</b>	MNF1.a - Identify, select, and safely use tools, machines, products and systems for specific tasks	AC1.b.7.m - Calculate the required materials for simple structures.	AC1.b.9.m Demonstrate use of the Standard Measuring System to the 1/16" and the Metric	AC1.g.5.m - create a drawing and completion schedule for a simple project.	AC1.g.10.h - Demonstrate proficiency in the practical application of the processes and materials (e.g., structural,

		MNF1.a.9.h - Select and apply the appropriate units and scales for situations involving measurement	Measuring system to Millimeters.  AC1.d.2.m: Demonstrate the safe and proper use of power tools.	ENG4.c.6.h - Develop and produce a product or system using a design process.	electrical, mechanical, finish) appropriate to architectural design and construction.  MNF1.e.8.h - Use a manufacturing system to product a product
<b>Learning Targets</b>	I can identify, select and safely use tools, machines, materials, and designs for specific projects.	I can identify, select, and use the correct measuring tool for the task.	I can identify the proper tool or machine for a given task.	I can identify and select the proper materials for a specific design.	I can design, create procedures, and build a completed project within specifications
<b>Knowledge and Skills</b>	Students will know how to identify proper behavior and safety procedures that are critical to the worker's safety and well-being.  Students will be skilled at working safely in the jobsite and shop setting	Students will know how to accurately measure distances  Students will be skilled at using measurement technologies to evaluate and create appropriate shaped materials	Students will know how to select and use a tool or machine to complete the appropriate task  Students will be skilled at selecting and using a tool or machine to complete an appropriate task	Students will know how to properly design and select materials for a given project  Students will be skilled at assessing design models and calculating materials for a given project	Students will know how to use a design to complete a project from start to finish  Students will be skilled at properly utilizing tools and machines to complete a given project from start to finish.
<b>Performance Tasks</b>	Various safety skill targets related to Wisconsin state skills standards.	Various measurement skill targets related to Wisconsin state skills standards in a variety of areas.	Various tasks involving choose and using the correct tool and machine for a given operation	Create a working design, select appropriate materials, and follow steps to produce the design	Use the design, develop the parts using machines and tools and create a project.
<b>Resources</b>	Online machine resources as supplemental instruction related to lab safety	Online machine resources as supplemental instruction related to measurement and layout	Online machine resources as supplemental instruction related to tools and machines	Online machine resources as supplemental instruction related to project design	Online machine resources as supplemental instruction related to project assembly

<b>Evaluative Criteria</b>	Combination of formative and summative assessments including but not limited to student demonstrations, tests, quizzes, and other hands or or written assessments	Combination of formative and summative assessments including but not limited to student demonstrations, tests, quizzes, and other hands or or written assessments	Combination of formative and summative assessments including but not limited to student demonstrations, tests, quizzes, and other hands or or written assessments	Combination of formative and summative assessments including but not limited to student demonstrations, tests, quizzes, and other hands or or written assessments	Combination of formative and summative assessments including but not limited to student demonstrations, tests, quizzes, and other hands or or written assessments
<b>Differentiation for Learning</b>	All assignments, projects, evaluations, etc. will be modified (extra time, group instruction etc.) for individual students as well as following all IEP/504 requirements.	All assignments, projects, evaluations, etc. will be modified (extra time, group instruction etc.) for individual students as well as following all IEP/504 requirements.	All assignments, projects, evaluations, etc. will be modified (extra time, group instruction etc.) for individual students as well as following all IEP/504 requirements.	All assignments, projects, evaluations, etc. will be modified (extra time, group instruction etc.) for individual students as well as following all IEP/504 requirements.	All assignments, projects, evaluations, etc. will be modified (extra time, group instruction etc.) for individual students as well as following all IEP/504 requirements.