

PCSD #1 Curriculum Map

Content Area: CTE

Course Name: Cabinetmaking

Unit and Timeframe	Essential Questions/Content	Objectives and Learning Targets	Resources/Text	Projects/Activities	Assessment/ Proficiency Scales	Priority Performance Standards
<p>Unit 1: Basic Safety</p> <p>Direct instruction - 5 Weeks</p> <p>Continued instruction - All year</p>	<p>What kind of clothing and safety equipment should be worn in the shop or on a work site?</p> <p>Have you passed a basic safety test with 100%?</p> <p>Have you been shown how to use the machine?</p> <p>Are you comfortable running the machine?</p>	<p>By the end of this unit students should know the proper attire to be worn in the shop.</p> <p>By the end of this unit students should be able to identify what safety equipment should be used for each machine and tool in the shop.</p>	<p>Table saw kickback video - https://www.youtube.com/watch?v=u7sRrC2Jpp4</p> <p>Sawstop video - https://www.youtube.com/watch?v=eiYoBbEZwlk</p>	<ul style="list-style-type: none"> - Hands on power tool demonstration - Hands on jointer demonstration - Hands on planer demonstration - Hands on table saw demonstration, kickback video, and sawstop video - Hands on band saw demonstration - Hands on belt and disc sander demonstration - Hands on miter saw demonstration 	<p>General shop safety</p> <p>Portable power tool safety</p> <p>Power equipment safety</p> <p>Jointer safety</p> <p>Planer safety</p> <p>Table saw safety</p> <p>Band saw safety</p> <p>Disc sander safety</p> <p>Belt sander safety</p> <p>Miter saw safety</p>	<p>CV12.1.4</p> <p>CV12.2.1</p> <p>CV12.2.4</p> <p>CV12.4.1</p> <p>CV12.4.2</p>
<p>Unit 2: Measurement, fractions, and decimals - Review</p> <p>Direct instruction - 1 week</p> <p>Continued instruction - All year</p>	<p>Can you read a tape measure?</p> <p>Can you read a ruler?</p> <p>Can you add fractions?</p> <p>Can you subtract fractions?</p> <p>Can you divide fractions?</p> <p>Can you convert fractions to decimals?</p> <p>Can you convert decimals to fractions?</p>	<p>By the end of this unit students should be comfortable with measurement, the addition and subtraction of fractions, the conversion of decimals to fractions, and the conversion of fractions to decimals.</p>		<ul style="list-style-type: none"> - Hands on board measuring practice 	<ul style="list-style-type: none"> - Measuring worksheet - Fractions and decimals worksheet 	<p>CV12.1.4</p> <p>CV12.2.1</p> <p>CV12.2.4</p> <p>CV12.4.1</p> <p>CV12.4.2</p>

Unit 3: Review of drafting and plan building Direct instruction - 1 week Continued instruction - All year	Do you know the names of basic hand drafting tools? Do you know the basic parts of a set of plans? Do you know the difference between an orthographic drawing and an isometric drawing? Can you complete basic functions in AutoCad? Can you complete basic functions in Solidworks? Can you make a materials list for the set of plans that you drew?	By the end of this unit students will understand how to draw a basic set of plans and build a materials list for that set of plans. Students will be able to calculate board feet for a project.		- Use of hand drafting tools - Use of AutoCad as a drawing program - Use of SolidWorks as a drawing program	- Orthographic drawing worksheet - Isometric drawing worksheet - Board feet calculation worksheet	CV12.1.4 CV12.2.1 CV12.2.4 CV12.4.1 CV12.4.2
Unit 3: Basic Cabinet and furniture construction Direct instruction - 2 Weeks Continued instruction - All year	Do you know the basic measurements of a base cabinet? (depth and height) Do you know the names of the parts used to construct a cabinet? Can you build a plan depicting the basic construction of a cabinet? Can you build a plan depicting the basic construction of a piece of furniture?	By the end of this unit students will understand the basic construction of a Cabinet. Students will also understand what is required to build basic furniture.	- Building Kitchen Cabinets - Designing and Building Cabinets	- Cabinet building plan - Furniture building plan	- Cabinet construction plan - Furniture construction plan	CV12.1.4 CV12.2.1 CV12.2.4 CV12.3.3 CV12.3.4 CV12.4.4 CV12.5.2 CV12.5.3
Unit 5: Student chosen project construction	Can you run each of the machines in the shop confidently?	Students will plan a project of their choice by drawing the plans,		- Draw a set of plans with an orthographic and isometric view of	https://drive.google.com/drive/my-drive	CV12.1.4 CV12.2.1 CV12.2.4

<p>Student project assembly and finish- 9 weeks</p>	<p>Can you use each tool in the shop confidently?</p> <p>Can you follow the plans you made to complete your project?</p> <p>Can you utilize prior lessons about project building to complete your project?</p>	<p>figuring the materials used, and figuring the cost of the project.</p> <p>Students will build and finish the project they planned using the machines and tools in the wood shop.</p>		<p>the project they want to build</p> <ul style="list-style-type: none"> - Complete a bill of materials for the project - Figure out the board feet of material used and the cost of the material -Build the project using the machines and tools in the wood shop 		<p>CV12.3.3 CV12.3.4 CV12.4.4 CV12.5.2 CV12.5.3</p>
<p>Unit 4: Glue Joints, Jigs, and special machine processes</p> <p>Direct instruction - 2 week</p> <p>Continued instruction - All year</p>	<p>Can you identify the various glue joints and their uses?</p> <p>Can you effectively set up a jig on a machine to make your work more efficient?</p> <p>Can you set up and complete special operations of various machines in the shop? (ie: Coving on the table saw)</p>	<p>By the end of this unit students will be able to identify different glue joints and their uses. Students will also be able to set up and use jigs on machines that can make their work more efficient. Students will also be able to set up and use special set ups on various machines.</p>		<ul style="list-style-type: none"> - Identification of glue joints and building of glue joints (hands on) - Hands on set up of miter saw jig - Hands on set up of jointer jig - Hands on set up of table saw jig - Hands on set up of Router jig - Special process - Rabbet on Jointer - Special process - Coving on Table saw - Special process - Dado on table saw 	<p>- Glue joints identification and use test</p> <p>- Jig and special process set up (hands on test)</p>	<p>CV12.1.4 CV12.2.1 CV12.2.4 CV12.4.1 CV12.4.2</p>
<p>Unit 5:Building of basic Cabinet (Plans that were made during Unit 3)</p> <p>Student project assembly and finish - 8 weeks</p>	<p>Can you run each of the machines in the shop confidently?</p> <p>Can you use each tool in the shop confidently?</p> <p>Can you follow the plans you made to complete your project?</p>	<p>Student will use the cabinet plan they developed in Unit 3 to build a cabinet and go through the steps covered in earlier lessons to complete the project.</p>		<ul style="list-style-type: none"> - Build a basic cabinet 	https://drive.google.com/drive/my-drive	<p>CV12.1.4 CV12.2.1 CV12.2.4 CV12.3.3 CV12.3.4 CV12.4.4 CV12.5.2 CV12.5.3</p>

	<p>Can you utilize prior lessons about building a cabinet?</p> <p>Can you follow the steps learned about basic cabinet construction?</p>					
<p>Unit 6: Student chosen project construction or CTE showcase project construction</p> <p>Student project assembly and finish - 8 weeks</p>	<p>Can you run each of the machines in the shop confidently?</p> <p>Can you use each tool in the shop confidently?</p> <p>Can you follow the plans you made to complete your project?</p> <p>Can you utilize prior lessons about project building to complete your project?</p>	<p>Students will plan a project of their choice by drawing the plans, figuring the materials used, and figuring the cost of the project.</p> <p>Students will build and finish the project they planned using the machines and tools in the wood shop.</p>		<ul style="list-style-type: none">- Draw a set of plans with an orthographic and isometric view of the project they want to build- Complete a bill of materials for the project- Figure out the board feet of material used and the cost of the material-Build the project using the machines and tools in the wood shop	https://drive.google.com/drive/my-drive	<p>CV12.1.4</p> <p>CV12.2.1</p> <p>CV12.2.4</p> <p>CV12.3.3</p> <p>CV12.3.4</p> <p>CV12.4.4</p> <p>CV12.5.2</p> <p>CV12.5.3</p>