



Carpentry Lesson Plan

Course: Carpentry	Grade Level: 9-12
Instructor:	CIP Code: 460201
Unit: Book 1 Projects	Title: Step Stool
<p>Knowledge, Content and Skills: Students will be able to: identify the tools and materials and processes needed to complete the step stool project, while maintaining a safe working environment.</p> <p>Performance objective: Create a cut list, identify materials and fasteners, follow directions, read working drawings, use and maintain hand and power tools. Fabricate the parts and assemble a step stool according to the working drawings and instructions.</p>	
<p>Competency Standard: 3. Demonstrate use of appropriate personal safety equipment. 10. Demonstrate proper safety and use of commonly used power tools. 44. General Safety: Demonstrate and apply safe practices and procedures in the workplace.</p>	
<p>Common Core: ELA—Reading: Students will demonstrate the ability to comprehend, analyze, and critique a variety of increasingly complex print and non-print informational texts-including science, social studies and technical subjects. MATH—Students will solve problems involving spatial reasoning using properties of 2- and 3-dimensional figures to analyze represent, and model geometric relationships in pure/theoretical and authentic applied contexts</p>	
<p>Tools, supplies and reference materials: $\frac{3}{4}$" x 12 x 5' and $\frac{3}{4}$" x 10 x 24" plywood, 1 x 2 x 24" and 1 x 4 x 24" pine or similar, wood glue, 1 $\frac{5}{8}$" construction screws, 80 grit sandpaper, claw hammer, mallet, tape measure, handsaw, electric drill, 1 $\frac{1}{4}$" spade bit, drill index, screw gun, saber saw, circular saw, sliding T-bevel, block plane, framing square, straight edge, combination square, compass, $\frac{3}{4}$" wood chisel, pencil, clamps, Career Connections Book 1 Chapter 9 pages: 216-227. <i>Notes: 1) 4 x 8 sheet of $\frac{3}{4}$" cdx will yield 3 stools, instructors need to make the jig on page 225 step 1 and provide $\frac{3}{4}$" x $\frac{3}{4}$" scraps and 1 $\frac{1}{4}$" screws for the temporary frame.</i></p>	
<p>Methods of instruction: Provide each student with the materials to and tools to complete the project and allow students to work at their own pace referencing the Career Connections Book 1 Chapter 9 and following the instructions, and asking questions of the instructor as needed. Estimated time: 8-10hrs. Number of students: 10-15</p>	
<p>Task analysis or activities: Students will work in small groups at shop tables, with all the previously mentioned power tools, working together to complete all activities and helping each other as they progress at their own pace.</p>	
<p>Evaluation: Students will be graded on their use of time, safety methods, quality of work, cleaning and organization of their work area, interaction with other students, and employability skills. Step stool project evaluation on page 249.</p>	
<p>Instructors Notes:</p>	



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