

Wood Technology Lesson Plan

Lesson Plan Title	Step Stool
Lesson Plan Created by	Zachary DePace Career Connections Outreach Specialist
Grade	9-12
Subject	Wood Technology
Standard(s)	3. Demonstrate knowledge of personal safety practices pertaining to eyewear, footwear, clothing and PPE used in wood technology 8. Identify, use and maintain measuring and layout tools 15. Explain and prepare a cut list from a basic plan and assembly drawing.
Time	12 hrs.
Indicators/Objectives	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. Fabricate the parts and assemble a step stool according to the working drawings and instructions.
Required 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>
Initiation (prior knowledge, connection, vocabulary)	Identify materials and fasteners, follow along with the steps in the book, read working drawings, use and maintain hand and power tools.
Learning Procedures	Create a cut list, identify materials and fasteners, follow directions, read working drawings, use and maintain the following tools: tape measure, pencil, combination square, circular saw, hand saw, drill, hammer, sandpaper, clamps.
Grouping	Whole group
Guided Practice	Students will work in small groups at shop tables, with all the previously mentioned power tools, working together to complete all steps in building the step stool and helping each other as they progress at their own pace.
Instructional Strategies	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.
Closure	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

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	skills. Manipulative skills assessments and written evaluations.
Independent Practice	Students should refer to the Lead up Exercises on tool use. Review grading rubric with the instructor after completion. Begin to study the bookcase project in Chapter 10.

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