

Wood Technology Lesson Plan

Lesson Plan Title	Book Case
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 24. Identify how grain direction affects a material's strength.
Time	8 - 10 hrs.
Indicators/Objectives	Students will be able to: identify the tools and materials and processes needed to complete the book case project, while maintaining a safe working environment. Fabricate the parts and assemble a book case according to the working drawings and instructions.
Required Materials	1 x 4 x 10' pine, 1 x 12 x 10' pine, 2) 1 x 12 x 8' pine, 6 lineal feet of ½" pine quarter round, wood glue, 4d and 6d finish nails, 6d box nails, ¼" x 3' x 4' luan or similar, 4) 4' shelf standards, 12) shelf clips, Career Connections Book 1 Chapter 10 pages: 252-265.
Initiation (prior knowledge, connection, vocabulary)	Review joinery-butt joint, dado joint, rabbet joint and miter joint. If time allows cover blind joinery. Provide samples of each.
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	Instructor should group students according to material available and student ability.
Guided Practice	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.
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 10 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 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 toolbox project in Chapter 11.

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