

Course: Carpentry	Grade: 9-12
Instructor:	CIP Code: 460201
Unit: Book 2 Projects	Title: Skateboard Ramp
<p>Knowledge, Content and Skills: Students will be able to: identify the tools and materials and processes needed to complete the skate board ramp project, while maintaining a safe working environment. New vocabulary: caulking gun, combination pilot-countersink bit, exterior wood glue, piano hinge, and poplar.</p> <p>Performance objective: Create a cut list, identify materials and fasteners, follow directions, read working drawings, use and maintain hand and power tools to complete the skateboard ramp project.</p>	
<p>Competency: 3. Demonstrate use of appropriate personal safety equipment and proper use of emergency equipment. 7. Explain terms commonly used to describe wood/lumber and identify lumber materials. 8. Demonstrate proper selection and use of a variety of fasteners and adhesives. 9. Demonstrate proper safety and use of hand tools. 10. Demonstrate proper use and safety of common power tools.</p>	
<p>Common Core: Listening: Students will demonstrate the ability to listen and view critically for variety of purposes. Reading Informational Texts Competency: Students will demonstrate the ability to comprehend, analyze and critique a variety of increasingly complex print and non-print informational texts.</p>	
<p>Tools, supplies and reference materials: Materials: (1) ¼" 4'x 4' plywood, (1) ⅜" 4'x 4' plywood (1) ¾"4'x 4' plywood, (1) ½" 2'x 4' plywood, (6) 2 x 4 x 8 SPF, (1) 2" outside dia. steel pipe 4', (1) ⅝" x 10 ⅜" x 4' steel plate, (2) 11 oz. tubes of construction adhesive, (2) 3" x 3" x ⅝" steel 90 degree brackets, (24) 1" deck screws, (30) 3" deck screws, (64) 2" deck screws. Tools: Caulking gun, center punch, Hammer, chalk box, circular saw, clamps, combination square, countersink bit for steel, electric drill, drill index, pencil, tape measure, saber saw, two sawhorses, screw gun. Career Connection Book 2 Chapter 5 pages: 184-208.</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 2 Chapter 5 and following the instructions. Estimated time: 18-20 hrs. Number of students: 15-20</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. The Skateboard ramp project evaluation is on page 235.</p>	

Instructors Notes:
