

**Teacher Name: Tom Hagen**

**Date of Revision: May 18, 2009**

**COURSE TITLE/GRADE: Woodworking I – All Grades**

**DEPARTMENT/SUBJECT: IA-Tech**

**Unit 1 - September**

**Unit 2 - October**

**Unit 3 – Nov. / Dec.**

	<b>Unit 1 - September</b>	<b>Unit 2 - October</b>	<b>Unit 3 – Nov. / Dec.</b>
Essential Questions	Why are following safety precautions in the classroom so necessary?	Why is project organization so important?	Why are sanding procedures important to the completion of a project?
Content	A. Safety Rules and General Safety Precautions B. Measurement and Related Calculation Techniques To construction Technology	A. Planning your work and bill of material layout. B. Project Selection – First Simple Project	A. Proper project sanding and finishing B. Housekeeping and clean-up participation
Skills	A. 1. Hand Tools and Power Tools – on-going 2. Machines – on-going as needed 3. Classroom, Home and Job Safety B. 1. The Big Inch Lesson 2. Measuring Tools and Devices 3. Fractions 4. Area, Perimeter and how to find the square of a given area	A. 1. Number of parts and names 2. Kinds of materials and sizes 3. Sketching and Drawings Required B. 1. Assign initial project - Book rack 2. Develop bill of material layout 3. Select, measure, mark and cut wood to build project	A. 1. Fine and coarse sandpaper 2. Sanding with grain 3. Staining –color options 4. Varnish, polyurethane and paints B. 1. Tool and project storage 2. End of class clean-up procedures 3. Self-management 4. Safety
NJ Core Content Standard	9.1, A, B - Career and Technical Education 9.2, A, B, C - Consumer Family and Life Skills	9.1, A, B - Career and Technical Education 9.2, A, B, C - Consumer Family and Life Skills	9.1, A, B - Career and Technical Education 9.2, A, B, C - Consumer Family and Life Skills
Assessments	Worksheets, Poster project, Essay, Quizzes, Unit Test, Student Project Evaluations	Worksheets, Essay, Quizzes, Unit Test, Student Project Evaluations	Worksheets, Essay, Quizzes, Unit Tests, Benchmark Test, Student Project Evaluations
Resources	Modern Woodworking		Modern Woodworking

	Goodhart & Wilcox – Copyright 1996 Equipment: Power Hand Tools and Machines		Goodhart & Wilcox – Copyright 1996 Equipment: Power Hand Tools and Machines
Interdisciplinary Connections	Math – Review of skills in measurement, students are expected to review and master the skills necessary to complete a project using exact measure. LAL – Students write an essay that explains the major reasons necessary for Safety Precautions in the area of Woodworking. Minimum of 3 paragraphs.	Math – Math is incorporated throughout the development of the project to insure proper measurement and accurate size of project to be cut.	LAL – Reading and summarizing informational text.

#### Unit 4 - January

#### Unit 5 - February - March

Essential Questions	How do I select the appropriate wood for the project?	What are the common elements of design?
Content	A. Names and applications of various wood materials B. Names and applications of various wood fasteners C. Names and applications of wood joints	A. Layout, Design and Solution of Student Developed Projects B. Ongoing Projects – Simple to Complex
Skills	A. 1. Soft woods and hard woods 2. Parts of a tree and lumber mills 3. Sizes, grades and lumber pricing B. 1. Kinds and styles of hardware 2. Recognizing and selection of nails and screws 3. Specific fasteners, glues and staples C. 1. Common wood joints 2. Hidden wood joints	A. 1. Fundamentals of good design 2. Principals of design 3. Common elements and errors in design B. 1. Individual independent student project design – on-going

	3. Strongest joints	
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Interdisciplinary Connections	LAL- Students will write a Compare/Contrast essay on the merits of particular woods for certain types of woodworking projects.	Art and Math – Students copy a drawn project and they must depict the sketch of the drawing with the dimensions identified before project is approved.

**Unit 6 –April / May/ June**

Essential Questions	What related careers would offer me job opportunities in the future?
Content	<ul style="list-style-type: none"> <li>A. The development of career planning and workplace readiness skills</li> <li>A. Related Career Options</li> <li>C. On-going student projects</li> </ul>
	A.

Skills	1. Related Careers, related job skills
NJ Core Content Standards	9.1, A, B - Career and Technical Education 9.2, A, B, C - Consumer Family and Life Skills
Assessments	Worksheets, Essay, Quizzes, Unit Test, Student Project Evaluations, Benchmark Test III & IV
Resources	Modern Woodworking Goodhart & Wilcox – Copyright 1996 Equipment: Power Hand Tools and Machines
Interdisciplinary Connections	LAL – Students research related careers, and then read, summarize and write about the career that they have selected.  Using a current local newspaper, the student will read, identify and become familiar with the terminology related to employment in a subject related field.

REVISED 4/20/09