

Anoka-Hennepin Secondary Curriculum Unit Plan

Department:	Career Technical Education	Course:	Construction Careers: Carpentry	Unit 4 Title:	Exterior Wall Framing	Grade Level(s):	11-12
Assessed Trimester:	A	Pacing:	1-2 Days	Date Created:	1/17/2014	Last Revision Date:	

<b>Course Understandings:</b> <i>Students will understand that:</i> <ul style="list-style-type: none"><li>• The field of construction trades and its area of specialization.</li><li>• Organizational skill, problem solving, critical thinking, and assessment skills are the essential tools used in construction trades.</li><li>• Math, in its various forms, are foundational to the construction trades.</li><li>• Attention to detail, resulting in a safe work environment and a high quality product, is the driving force within construction trades.</li></ul>
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DESIRED RESULTS (Stage 1) - WHAT WE WANT STUDENT TO KNOW AND BE ABLE TO DO?

Established Goals	
<b>Minnesota State/Local/Technology Standard(s) addressed:</b> <ul style="list-style-type: none"><li>• <b>Professional Attributes</b> - A1 Displays high standards for attendance and punctuality, A2 Displays a positive attitude, A3 Displays appropriate behavior, A4 Works effectively as a team member, A5 Applies listening skills, A6 Applies speaking skills</li><li>• <b>Fundamental Carpentry Skills</b> - E9 Uses squares, measuring tapes or rules to measure materials or distances, E11 Performs mathematical calculations</li><li>• <b>Hand Tools</b> – F1 Identifies and correctly uses hammers, F2 Identifies and correctly uses handsaws</li><li>• <b>Power Tools</b> – G1 Identifies and correctly uses power drills, G2 Identifies and correctly uses power saws, G3 Identifies and correctly uses sanders, G7 Identifies and correctly uses pneumatic nailer</li><li>• <b>Reading Plans</b> – H4 Reads and interprets elevation view drawings</li><li>• <b>Estimating Materials</b> – J1 Estimates rough framing materials</li><li>• <b>Rough Framing</b> – L11 Constructs and erects wall sections, L13 Cuts studs, trimmers, cripples, and headers to dimensions, L21 Lays out rafter locations on a top plate</li></ul>	
Transfer	
<b>Students will be able to independently use their learning to: (product, high order reasoning)</b> <ul style="list-style-type: none"><li>•</li></ul>	
Meaning	
<b>Unit Understanding(s):</b> <b>Students will understand that:</b> <ul style="list-style-type: none"><li>• That exterior wall framing has specific terminology</li><li>• That stock cutting requires specific calculations</li><li>• That proficiency with specific tools is required to complete exterior wall framing</li><li>• That specific procedures are required for exterior wall framing</li></ul>	<b>Essential Question(s):</b> <b>Students will keep considering:</b> <ul style="list-style-type: none"><li>• What is a exterior wall frame?</li><li>• How is math utilized in building a exterior wall frame?</li><li>• What is a stud?</li><li>• What safety measures need to be followed in exterior wall framing?</li></ul>
Acquisition	
<b>Knowledge - Students will:</b> <ul style="list-style-type: none"><li>• Exterior wall framing terminology</li><li>• Exterior wall frame layout</li><li>• Safety protocol for exterior wall framing and specific tools</li><li>• Size and cost estimates for materials</li></ul>	<b>Skills - Students will:</b> <ul style="list-style-type: none"><li>• What should they eventually be able to do as a result of such knowledge and skill?</li><li>• Mark location of studs on the plates</li><li>• Explain spacing requirements for specific exterior wall framing jobs</li><li>• Demonstrate safety procedures for circular saw, power miter saw, and pneumatic tools</li></ul>

<ul style="list-style-type: none"><li>• The different types of fasteners</li><li>• The different types of studs</li></ul> <b>Reasoning - Students will:</b> <ul style="list-style-type: none"><li>•</li></ul>	<ul style="list-style-type: none"><li>• Calculate accurate estimate for exterior wall framing materials</li><li>• Explain the characteristics and function of different studs</li></ul>

<b>Common Misunderstandings</b> <ul style="list-style-type: none"><li>• Inability to do math</li><li>• Illiteracy in either or both reading and writing</li><li>• Where to start exterior wall framing</li><li>• Type of fasteners and their role</li></ul>	<b>Essential new vocabulary</b> <ul style="list-style-type: none"><li>•</li></ul>
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