

Anoka-Hennepin Secondary Curriculum Unit Plan

Department:	Technology Education	Course:	Carpentry for the Future Homeowner	Unit Title:	Math Principles: Measurement	Grade Level(s):	9-12
Assessed Trimester:		Pacing:	1 Day/Ongoing	Date Created:		Last Revision Date:	11/2014

Course Understandings: <i>Students will understand:</i> <ul style="list-style-type: none"><li>How to correctly measure related building construction work.</li></ul>
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DESIRED RESULTS (Stage 1) - WHAT WE WANT STUDENT TO KNOW AND BE ABLE TO DO?

Established Goals	
Minnesota State/Local/Technology Standard(s) addressed: <ul style="list-style-type: none"><li>Standards for Technological Literacy Chapter 3, 6, and 7</li></ul>	
Transfer	
Students will be able to independently use their learning to: (product, high order reasoning) <ul style="list-style-type: none"><li></li></ul>	
Meaning	
Unit Understanding(s): Students will understand: <ul style="list-style-type: none"><li>The importance of measuring correctly</li><li>Adding and subtracting fractions</li><li>Correctly use a steel tape measure</li><li>How to read degree measurement</li><li>Plumb and level concepts</li></ul>	Essential Question(s): Students will keep considering: <ul style="list-style-type: none"><li>What is the tolerance that is acceptable when measuring?</li><li>How do I determine the measurement using the tape measure?</li><li>How do I determine the measurement using a scale?</li><li>How do I add fractions?</li><li>How do I subtract fractions?</li><li>How do I read degree measurement?</li></ul>
Acquisition	
Knowledge - Students will: <ul style="list-style-type: none"><li>Know how to identify a fraction on a ruler</li><li>Know how to accurately read a ruler</li><li>Know how to accurately read a scale</li><li>Know how to add fractions</li><li>Know how to read degree measurement</li></ul> Reasoning - Students will: <ul style="list-style-type: none"><li></li></ul>	Skills - Students will: <ul style="list-style-type: none"><li>Correctly measure a given object with a ruler and scale</li><li>Correctly adjust machines to the correct measurement.</li><li>Correctly add fractions.</li><li>Correctly subtract fractions.</li><li>Layout angle using a speed square</li><li>Correctly square up a framed floor system</li></ul>

<b>Common Misunderstandings</b> <ul style="list-style-type: none"><li>• Accurate measurements are not important; one just has to “close”</li></ul>	<b>Essential new vocabulary</b> <ul style="list-style-type: none"><li>• Tape Measure and scale</li><li>• Scale</li><li>• Degree</li></ul>
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