Anoka-Hennepin Secondary Curriculum Unit Plan

Department:	Technology Education	Course:	Carpentry for the Future Homeowner	Unit Title:	Math Principles: Math Principles	Grade Level(s):	9-12
Assessed Trimester:		Pacing:	2 Days	Date Created:		Last Revision Date:	11/2014

Course Understandings: *Students will understand that:*
- How math principles work in relationship to the residential home.

DESIRED RESULTS (Stage 1) - WHAT WE WANT STUDENT TO KNOW AND BE ABLE TO DO?

Established Goals

Minnesota State/Local/Technology Standard(s) addressed:
- Standards for Technological Literacy Chapter 3, 6, and 7

Transfer

Students will be able to independently use their learning to: (product, high order reasoning)
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Meaning

Unit Understanding(s):	Essential Question(s):
Students will understand: • How to calculate board feet • How to calculate area and volume	**Students will keep considering:** • How much roofing materials are needed to complete a job? • What are the measurements of a room? • How much concrete is needed?

Acquisition

Knowledge - Students will:	Skills - Students will:
• Know how to calculate area of a square/rectangle, triangle and circle • Know how to use the Pythagorean Theorem • Know how to calculate volume **Reasoning - Students will:** •	• Determine the square feet of a given room • Determine if a wall or floor is square • Layout a wall including stud spacing and window/door openings • Correctly estimate the materials needed for a wall with one window and one door in it

Common Misunderstandings	Essential new vocabulary
• A person doesn't need math to repair "stuff"	• Area • Perimeter • Volume