

Anoka-Hennepin Secondary Curriculum Unit Plan

Department:	Career Technical Education	Course:	Construction Careers: Building Trades	Unit 4 Title:	Concrete and Masonry	Grade Level(s):	11-12
Assessed Trimester:		Pacing:	10 Days	Date Created:		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>
---

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> - 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>Foundations and Forms</b> – K9 Installs anchor bolts in concrete block, K13 Screeds concrete</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>The application of basic construction concepts is foundational to all types of construction projects</li><li>Mastery of basic construction concepts is required to be successful in construction trades</li><li>Mastery of basic construction concepts is required to be able to work in conjunction with other carpenters</li><li>Basic construction concepts apply to both new construction and remodeling projects</li></ul>	<b>Essential Question(s):</b> <b>Students will keep considering:</b> <ul style="list-style-type: none"><li>What types of concrete are there?</li><li>What is masonry?</li><li>What is the difference between brick and block?</li><li>How do you layout masonry corner?</li><li>What tools do you use in concrete and masonry jobs?</li></ul>
Acquisition	
<b>Knowledge - Students will:</b> <ul style="list-style-type: none"><li>Terminology used in masonry construction</li><li>Procedures for mixing and placing concrete</li><li>Procedures for laying out a block corner</li><li>Procedures for laying out a brick corner</li><li>Masonry safety protocol</li></ul>	<b>Skills - Students will:</b> <ul style="list-style-type: none"><li>Apply basic construction concepts to masonry projects</li><li>Demonstrate masonry tools safety</li><li>Estimate cost of materials for a brick project</li><li>Estimate cost of materials for a block project</li><li>Estimate cost of materials for a concrete project</li></ul>

<ul style="list-style-type: none"><li>• Correct use of masonry tools</li></ul> <b>Reasoning - Students will:</b> <ul style="list-style-type: none"><li>•</li></ul>	<ul style="list-style-type: none"><li>• Layout a brick and block corner</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>• How to do a layout</li><li>• Deciding on the correct tools for the job</li></ul>	<b>Essential new vocabulary</b> <ul style="list-style-type: none"><li>•</li></ul>
--	---