Anoka-Hennepin Secondary Curriculum Unit Plan

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

Course Understandings: *Students will understand that:*

- The field of construction trades and its area of specialization.
- Organizational skill, problem solving, critical thinking, and assessment skills are the essential tools used in construction trades.
- Math, in its various forms, are foundational to the construction trades.
- Attention to detail, resulting in a safe work environment and a high quality product, is the driving force within construction trades.

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

Established Goals

Minnesota State/Local/Technology Standard(s) addressed:

- **Professional Attributes** - 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
- **Fundamental Carpentry Skills** - E9 Uses squares, measuring tapes or rules to measure materials or distances, E11 Performs mathematical calculations
- **Hand Tools** – F1 Identifies and correctly uses hammers, F2 Identifies and correctly uses handsaws
- **Power Tools** – 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
- **Reading Plans** – H4 Reads and interprets elevation view drawings
- **Estimating Materials** – J1 Estimates rough framing materials
- **Rough Framing** – L6 Lays out and constructs floor assembly, L8 Installs floor joists, L9 Installs subflooring

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 that: ● Floor framing has specific terminology ● Stock cutting requires specific calculations ● Proficiency with specific tools is required to complete floor framing ● Specific procedures are required for floor framing	**Students will keep considering:** ● What is a floor frame? ● How is math utilized in building a floor frame? ● What is a joist? ● What safety measures need to be followed in floor framing?

Acquisition

Knowledge - Students will:	Skills - Students will:
● Floor framing terminology ● Floor frame layout ● Safety protocol for floor framing and specific tools ● Size and cost estimates for materials	● What should they eventually be able to do as a result of such knowledge and skill? ● Mark location of floor joist on the rim joists ● Explain spanning requirements for specific floor framing jobs ● Demonstrate safety procedures for circular saw and pneumatic tools

• The different types of fasteners **Reasoning - Students will:** •	• Calculate accurate estimate for floor framing materials

Common Misunderstandings	**Essential new vocabulary**
• Type of joists and their functions • Inability to do math • Illiteracy in either or both reading and writing • Where to start floor framing • Type of fasteners and their role	•