

**Decision 1: Curriculum Map****Course: Manufacturing 2****Topic: Casework Project****Subject(s): Tech - Ed****Grade(s): 9 - 12**

Days: 42

**Key Learning(s):**

Students will utilize the Manufacturing Lab to construct a casework project

**Unit Essential Question(s):**

How do I safely construct a casework project using the Manufacturing Lab?

**Optional Instructional Tools:**

- Programmable Router
- Wood Technology and Processes text
- handouts

<b>Concept:3.410.B4, 3.410.B1, 3.4.10E6, 3.4.10.E7</b> Shop Safety review	<b>Concept: 3.410.B4, 3.410.B1, 3.4.10E6, 3.4.10.E7</b> Design and measurement review	<b>Concept: 3.410.B4, 3.410.B1, 3.4.10E6, 3.4.10.E7</b> Material Requirements
<b>Lesson Essential Questions:</b> What is the safe attitude?	<b>Lesson Essential Questions:</b> What are the elements of design?	<b>Lesson Essential Questions:</b> What are the material requirements for your project?
<b>Vocabulary:</b> personal protective equipment, push boards, MSDS sheets, coasting	<b>Vocabulary:</b> Form, function, construction, Metric, customary, fractional, decimal equivalent, dimension, function, scale, bill of materials	<b>Vocabulary:</b> Furniture grade plywood, furniture grade lumber, MDF

<b>Concept: 3.410.B4, 3.410.B1, 3.4.10E6, 3.4.10.E7</b> Machine operation	<b>Concept: 3.410.B4, 3.410.B1, 3.4.10E6, 3.4.10.E7</b> Layout a cutting	<b>Concept: 3.410.B4, 3.410.B1, 3.4.10E6, 3.4.10.E7</b> Assembly
<b>Lesson Essential Questions:</b> How is the Plate Joiner used in casework construction?	<b>Lesson Essential Questions:</b> How do I accurately layout and cut my project?	<b>Lesson Essential Questions:</b> What is the proper method of assembly for casework?
<b>Vocabulary:</b> Biscuits, biscuit joiner,	<b>Vocabulary:</b> Square, orientation marks, rabbet cut	<b>Vocabulary:</b> Bar clamp, glue caul, dry fit