Teacher Candidate: Mike Friesen SA: Vic Menicucci FA: Rob Williamson

UNIT: Stock Break out and Board Measure GRADE: 9/10/11/12 DATE:

TOPIC: Woodworking – Wood tooling LESSON: 3 of 24 BLOCK/TIME:

**BIG IDEAS**

* Complex tasks require the acquisition of additional skills.
* Complex tasks may require multiple tools and technologies.

**Prior knowledge:**

I will assume no prior knowledge of wood tooling, wood orientation. Safety test and demos

MUST be completed by all students before they are permitted to proceed.

**Course Content**

* Identify orientation of a piece of wood
* Calculate board measures (Imperial and Metric)
* Locate grain direction and wood defects that will prevent tooling
* Demonstrate safe and proper procedure of stock breakout using power equipment

**Objectives: SWBAT**

* Apply skills from measurement unit and stock break out unit to complete lab

**Motivator:**

Students will be able to start stock break out of personal projects once drawings are handed in and

Checked.

**Supporting Material:**

* PowerPoint
* Worksheets with lab instructions attached
* Instructor demo

**Equipment:**

|  |  |
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| **List of materials needed:** | **List of equipment** |
| * - Worksheets * - Rough board 12’ lengths (1” Pine) | * - White board * - Projector * - Woodshop Machines (Radial arm saw, Jointer, Thickness planer and Mitre Saw) * - Woodshop hand tools – Found on tool board |

**Preparation:**

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| Day before lab:   * Photocopy Worksheets and Labs   Few minutes before class:   * Write agenda on board * Load PowerPoint and warm up Projector |

**In class content:**

|  |  |  |
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| **Time** | **Lesson Procedure** | **Commentary, questions, notes** |
| 2 min  3 min  30 mins  5 mins  30 mins  5 mins  2 mins | Attendance  Go over schedule    Lesson: PowerPoint   * Wood Defects and Stock Breakout * Board Measure   Introduce Lab   * Stock Break Out and Board Measure   Work period   * Send one table at a time to start Stock Break Out * Other tables can work on worksheets and project designs     Clean up  Closure  Exit slip   * Draw grain of a piece of wood and its direction. * Show and label the direction the same board should be fed into a thickness Planer? | * Make sure to ask for clarification and understanding * Use LABELED SAMPLES * Lab procedure handouts * Groups of 4 at a time * Worksheets (Stock break out, Board measure) * Project designs (Must be signed off before starting) |

**Vocabulary:** Grain, Length, Width, Thickness, Board Measure, Face, Edge, End, Parallel, Knot, Checks, Shake, Want, Wane, Cup, Twist, Spring

**Evaluation:** Worksheets, Stock Break Out test (end of week), Exit slips

**NOTES:**