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:**

|  |  |
| --- | --- |
| **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
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**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
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**In class content:**

|  |  |  |
| --- | --- | --- |
| **Time** | **Lesson Procedure** | **Commentary, questions, notes** |
| 2 min3 min30 mins5 mins30 mins5 mins2 mins | AttendanceGo 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 upClosureExit 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)
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**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:**