|  |  |
| --- | --- |
| Lesson Plan: Stock Breakout | Date: January 2017 |
| Course: Wood 9-10 | Estimated time: 70 minutes |
| Lesson Objectives:* Big Ideas - Complex tasks require the sequencing of skills.

 - Complex tasks may require multiple tools and technologies* Curricular Competencies and Objectives
	+ Identify and use appropriate tools, technologies, materials, and processes for production
	+ Demonstrate an awareness of precautionary and emergency safety procedures in physical environments
	+ Techniques for stock breakout and woodworking using a variety of tools and equipment, including stationary power equipment
	+ Demonstrate safe and proper procedure of stock breakout using power equipment
	+ Locate grain direction and wood defects that will prevent tooling
	+ Use materials in ways that minimize waste
 |
| Introduction |  |
| * Show students the woods they can use and what size boards they will need
 |
| Lesson Details | Important Points & Teaching Techniques/Strategies |
| * **Attendance**

5 min10 min10 min5 min10 min30 min* **Introduction and question prior knowledge**
	+ Students have completed safety tests on the machines they will be using (circular saw, jointer, table saw, planer)
	+ Students have done stock breakout before but this will be the first time they will be using their own layout and cutting plans
* **Review the steps (FETWEL)**
	+ Reference **F**ace
	+ Reference **E**dge
	+ Final **T**hickness
	+ Final **W**idth (Ripping)
	+ Square **E**nd (Cross Cutting)
	+ Final **L**ength (Cross Cutting)
* **Review Safety**
	+ Wear safety glasses and hearing protection
	+ Secure long hair and loose clothing
	+ Ensure students have completed safety test on jointer, cross-cut saw, table saw, and planer
* **Demonstrate correct procedure**
* **Students work on projects** (jewelry box)
	+ Have students begin stock breakout, one table group at a time
	+ Students not doing stock breakout will work on carving
	+ Teacher is supervising stock breakout, ensuring students are using correct procedure

**Materials:*** Wood – scrap for demo
* Teaching aid – demo jewelry box parts

**Adaptations for ELLs:*** Vocabulary handout and/or posted on board:
	+ Grain, length, width, thickness, face, edge, end
 |
| Questions |  |
| * What is the first step on the jointer?
* When should you use a push-stick on the jointer?
* Which machine moves in the same direction as the blade is turning?
* How can you ensure that your piece of wood is square?
 |
| Closure |  |
| * Do a final review of the steps for stock breakout and check-in with students re. their progress.
 |
| Reflection |  |
| * What went well? What might you change?
 |