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| 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 min  10 min  10 min  5 min  10 min  30 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? | | |