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| Lesson Plan: Finishing Techniques | | Date: January 2017 |
| Course: Wood 9-10 | | Estimated time: 70 minutes |
| Lesson Objectives:   * Big Idea - Complex tasks require the sequencing of skills. * Curricular Competencies   + Identify and use appropriate tools, technologies, materials, and processes for production   + Demonstrate an awareness of precautionary and emergency safety procedures in both physical and digital environments   + Identify criteria for success, intended impact, and any constraints | | |
| Introduction |  | |
| * Show students the sample of pine with several finishes already applied (stain, oil finish, clear-coat) | | |
| Lesson Details | Important Points & Teaching Techniques/Strategies | |
| * **Explain the importance of sanding before applying finish** (220 grit or higher) * **Explain the importance of always going with the grain** * **Point out the instructions on the can**   5 min  5 min  5 min  5 min  5 min  45 min   * **Safety**   + Wear gloves and safety glasses   + Check container for MSDS information   + Put used rags in fire-proof bin * **Applying Stain**   + Use if you want to change the color of the wood   + Brush on and wipe off excess before it dries * **Applying Oil Finish (Watco)**   + Use to bring out the natural color of the wood and seal the wood   + Rub on with a rag or very fine sandpaper (300-600 grit)   + Leave to dry for 20-30 minutes between coats   + Wipe off excess oil when it no longer absorbs into the wood * **Applying Clear-Coat (Polyurethane)**   + Use to protect the surface and bring out the color of the wood   + Apply with a brush or rag and leave to dry   + When dry, sand with very fine sandpaper (300-600 grit) and apply second coat   + Repeat until it looks good (3-4 coats) * **Remind students to check the instructions on the can** * **Students work on projects**   **Materials:**   * Finishes – stain, Watco, polyurethane * Equipment – small containers, gloves, aprons, brushes, rags, sandpaper * Teaching aid – pine board with examples of different finishes   **Adaptations for ELLs**   * Vocab sheet with the following terms   + Stain   + Polyurethane   + Finishing Oil (Watco) | | |
| Questions |  | |
| * If your project is going to get heavy use, which of the finishes that we have talked about would you use? * Can you use Watco and Polyurethane on the same surface? * Where do used rags need to go? | | |
| Closure |  | |
| * Tell student’s that finishing is an important aspect of woodworking that should never be rushed when completing a project. Show students a piece of wood that has been finished properly. | | |
| Reflection |  | |
| * What went well? What might you change? | | |