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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
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| Introduction |  |
| * Show students the sample of pine with several finishes already applied (stain, oil finish, clear-coat)
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| 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 min5 min5 min5 min5 min45 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)
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| 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?
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| 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.
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| Reflection |  |
| * What went well? What might you change?
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