

Agriculture Shop Class

Wooden Shelf Project

Name _____

Project Objective:

To create a '**Mother's Day Shelf**' project of quality while demonstrating appropriate safety.

In this project, each of you will be designing and manufacturing a wooden shelf. It will consist of 2 side rails/end pieces, a back plate, and a top shelf. You will receive a three foot long 1" x 6" pine board from which to make this project.

Procedures:

1. Lay out/design of components.
2. Cut out pieces (includes slot cut, and any roundover work)
3. Prepare wood for finish.
4. Finish wood.
5. Attach components together using wood glue and air nailer.

Steps:

1. Get your wood – 1 piece of 1 x 6 that is 3 feet long.
2. Use template and/or make your own design for components.
3. Plane board if needed.
4. Cut out individual components (and any designs into back plate).
5. Cut slot into back of shelf board for mounting.
6. Round-over edges and sand – use all 3 major grit categories (coarse, medium, fine).
7. Apply a finish: sanding sealer and clear coat protection; stain and clear coat, or tung oil and clear coat protection.

Roland-Story Agriculture Shop Class

Mother's Day Shelf Project

Name _____

Evaluation Criteria	4—Excellent	3 –Above Average	2 – Average	1 –Below Average
Length	Cut to correct length	1/4 to 1/2 inch off	1/2 to 3/4 inch off	More than 3/4 inch off
Staining	Correctly applied – even and equal coverage	Correctly applied – even, but unequal coverage	Incorrectly applied – uneven and unequal coverage	Not stained.
Finish	Very smooth and free of defects	Smooth with some defects	Rough with defects	Rough with splits
Appearance including drilling of holes	Even with correctly applied paint and/or stain	Slightly uneven with correctly applied paint and/or stain	Uneven with correctly applied paint and/or stain	Uneven with paint and/or stain applied incorrectly
Summary Paper	Completed fully with no spelling or grammar errors	Completed fully with 1 to 2 spelling or grammar errors	Completed fully with more than 3 spelling or grammar errors	Not completed or has more than 3 spelling or grammar errors.

Safety used in project..... 5 points possible _____

Questions on backside 5 points possible _____

Total points earned _____ out of 30.

1. What was the most difficult task of this project for you?
2. What was the easiest task of this project for you?
3. What did you learn by doing this mother's day shelf project?
4. If you were to re-do this project, what would you do differently and why?