

Kingsburg High School
Mr. Mederos



Name _____

Date _____

Period _____

Agricultural Mechanics I Wood Working Projects

Swedish Bookend

Bill of Materials

- 1- 1"X 4" pine 1' long
- 2- #8 screws 1" long
- 2- 8d nails 1" long
- Elmers Wood Glue

Procedures:

Marking your piece of wood:

1. Obtain a piece of lumber
 - a. Measure the lumber
 - b. Measurements should be 3 ¼" by 1"
2. Measure 4" from one end and make a mark
3. Using a combination square, draw a line across the board
4. Double-check the line by measuring both sides
5. On the same end measure to the center of the piece you marked which is 2"
6. Measure the width of the board, then from the center mark, split the difference of the board and mark the piece at both ends.
(Ex. If the board is ½" wide the mark should be ¼" on both sides of the 2" mark)
7. Using combination square, make your lines according to your marks
8. From the opposite end of your piece of lumber make a mark at the 1" line
9. Using the 45° angle on the back of the combination square make the mark for your angles on the bookend
10. From the end that you began on, measure out 5 ½" from the end, by 2" from the bottom of your bookend and make a mark.
11. From the same reference end, measure in 8" from the end, by 1" from the bottom of the bookend.

12. Important: On the top of the board measure in from what be the centerpiece 4", and mark it,

13. From the 4" mark, using the combination square angle, make a 45° in to the opposite side of the wood where the dado cut will be.

Have Mr. Gravatt or Mr. Mederos check your markings for accuracy!

Procedure:

1. At your mark that is 5 1/2" from the end, use the bit brace with the 9/16" bit and bore your hole at the mark
2. At your mark that is 8" by 1" from the end, use the 3/16" bit and bore your other hole.
3. Using the miter saw, set at a 45° angle cut your first piece from the 1" mark.
4. Using the miter saw again, cut your 45° angle from the top of your board to the opposite side of what will be your dado cut.
5. Using a rip saw, make several cuts along the dado mark to half of the thickness of the wood.
6. When finished with the cuts clean out the crevice with a wood chisel.

Assembly:

1. On each joint measure in 1/4" from the top and bottom and mark the wood in the center of the lumber, these will be your marks for the screws and finishing nails
2. Start your _____ to the 45° joint. Apply the wood glue to the joint and put it together.
3. Start your _____ to the dado joint. Apply the wood glue and put it together.
4. Wipe off the excess glue.
5. Sand your project down using _____.

<u>Criteria</u>	<u>Points Possible</u>	<u>Points Earned</u>
1. Project Layout	25	
2. Project cutout	25	
3. Care of Wood (No nicks, dents, or gouges)	15	
4. Project Finish	15	
5. Were the directions followed?	10	
6. Overall neatness of the project	10	
Total:	100	

