

Agriculture Shop Class

Hand tool board project

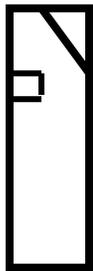
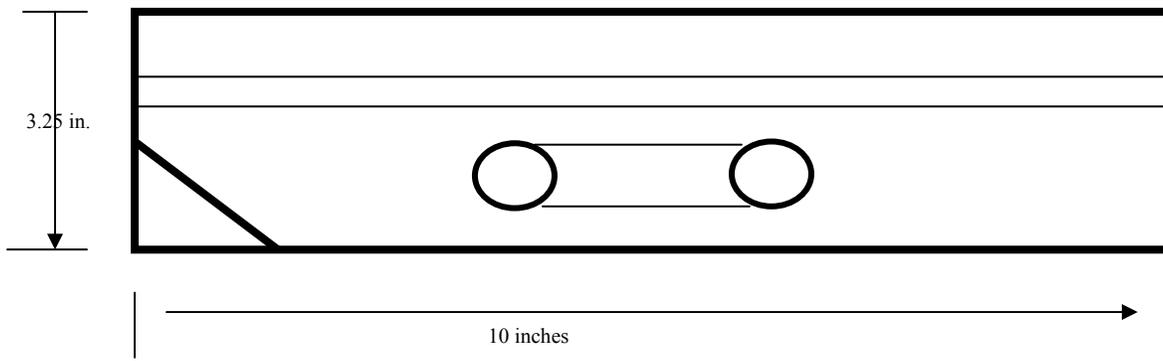
Name _____

Project purpose:

The main purpose of this project is to expose you to a variety of hand tools which can be used in the woodworking industry and how to use them safely.

Project Overview:

In this project, each of you will be starting with a board (1" x 4" x 12"). With this board, you will be using a series of various hand tools to complete the project.



1. Use a combination hand saw to cut the board to a length of 10 inches. (crosscut)
2. Use a hand plane to smooth and narrow board to a width of 3.25 inches.
3. One inch down from the top of the board, cut a $\frac{1}{4}$ inch deep groove using a chisel. The groove will be $\frac{1}{4}$ inch wide.
4. Use the wood brace to drill two holes into your board below the level of the groove. The holes should be 4 inches apart (center to center).
5. Use a keyhole saw to cut from hole to hole.
6. Use a backsaw to cut a 45 degree angle from the lower left of the board (go up 1 inch and over 1 inch from the corner).
7. On the upper backside of the board, use a hand plane to make a chamfer (45 degree angle cut). It will be $\frac{1}{4}$ inch down and $\frac{1}{4}$ inch over.
8. Use a sanding sponge or sanding block to smooth the entire project.
9. Fill out the opposite side of self evaluation and hand in board and this paper when done.

**Agriculture Shop Class
Hand Tool Board Self Evaluation**

Name _____

- Board was the correct length? (10 inches) _____ yes _____ no
 - Board was the correct height? (3 ¼ inches) _____ yes _____ no
 - Lower left corner was cut to a 45 degree angle (1 inch x 1 inch) _____ yes _____ no
 - A ¼ inch by ¼ inch groove was taken from the board 1 inch down from the front top? _____ yes _____ no
 - Two hole were drilled using the wood brace and a saw was used to cut out the material between them? _____ yes _____ no
 - A wood plane was used to make a ¼ inch by ¼ inch chamfer on the top back of the board? _____ yes _____ no
 - The board/project was sanded to make smooth and remove and splinters? _____ yes _____ no
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What made this project difficult for you to do?

What did you learn from doing this project?