

## The One Board Bookshelf

### Materials:

- 1 1" x 6" x 24" Pine
- 4 #6 x 1 ½" Wood screws
- Glue

### Skills:

Coping saw, Crosscut Saw, Rip saw, drilling.

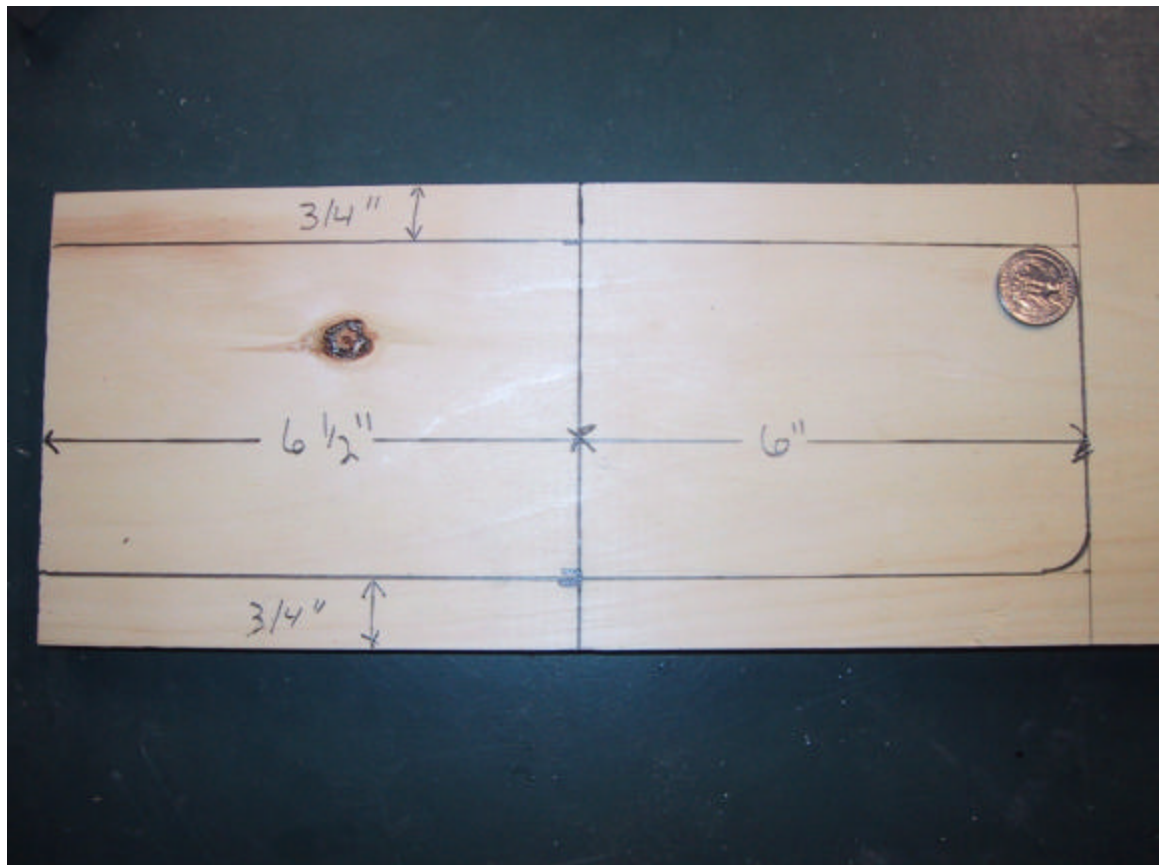
### Level:

Moderate - The bookshelf is made from standard 1 x 6 pine lumber that is soft and easy to cut and finish. It does make use of all three common woodworking saws, the coping saw for curves, the rip saw for cutting along the length of the board, and the crosscut saw for cutting across the board.

## Construction:

### 1 Layout the cut lines.

- Measure in  $6\frac{1}{2}$ " from one end and mark a line across the board.
- Measure in  $12\frac{1}{2}$ " from the same end and mark another line across the board.
- Mark a line  $\frac{3}{4}$ " from one side to form the foot and book "end"
- Mark a line  $\frac{3}{4}$ " in from the other side to form the other foot and part of the book "end".
- Using a quarter, mark a rounded corner at the top of the book end.



2 **Cut out the feet.**

**Rip saws are used for cutting with the grain of a board.**

Using a rip saw, cut the long side of the feet from the end of the board to the 6 1/2" line. Finish the cut with the saw vertical to the board.



- 3 Cross cut saws are used for cutting across the grain of a board**  
Using a cross cut saw, cut across the board along the 6 ½" line to remove the feet.

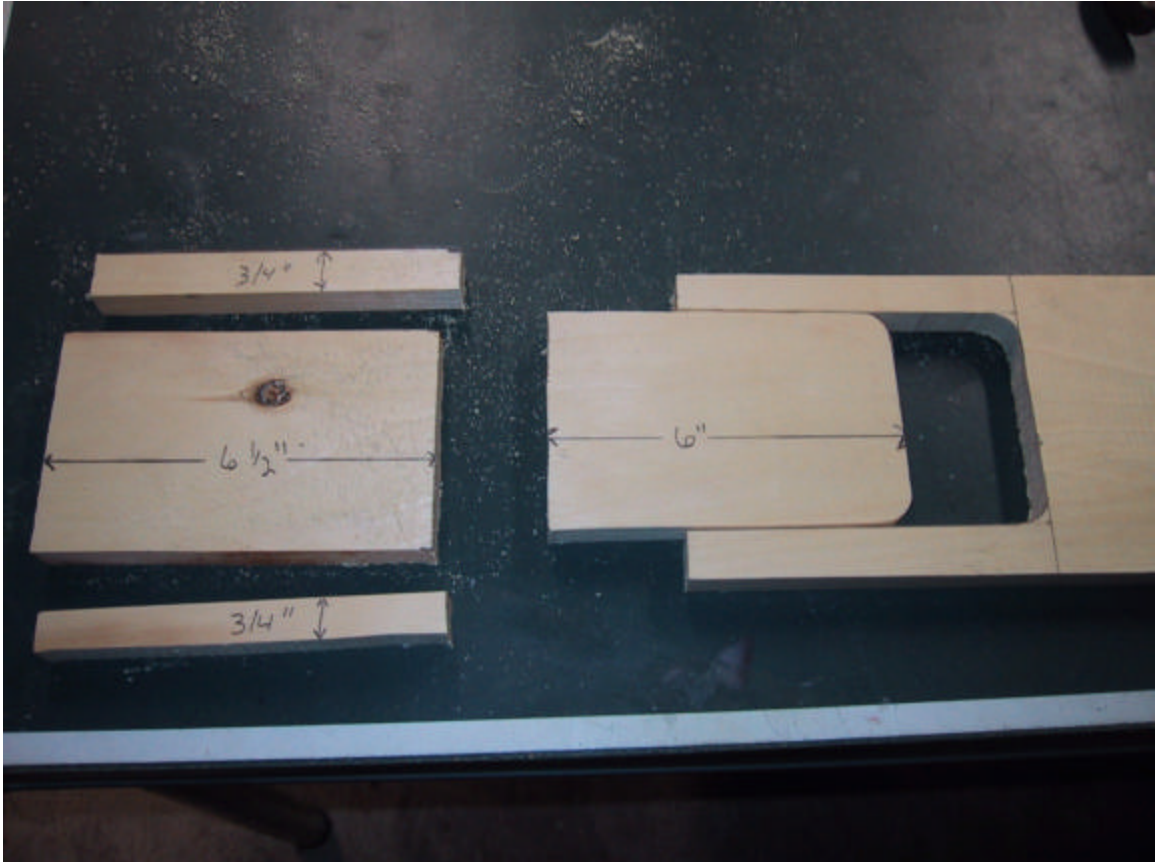


#### 4 Cut the fold up ends

Using the rip saw, cut the long straight portions.

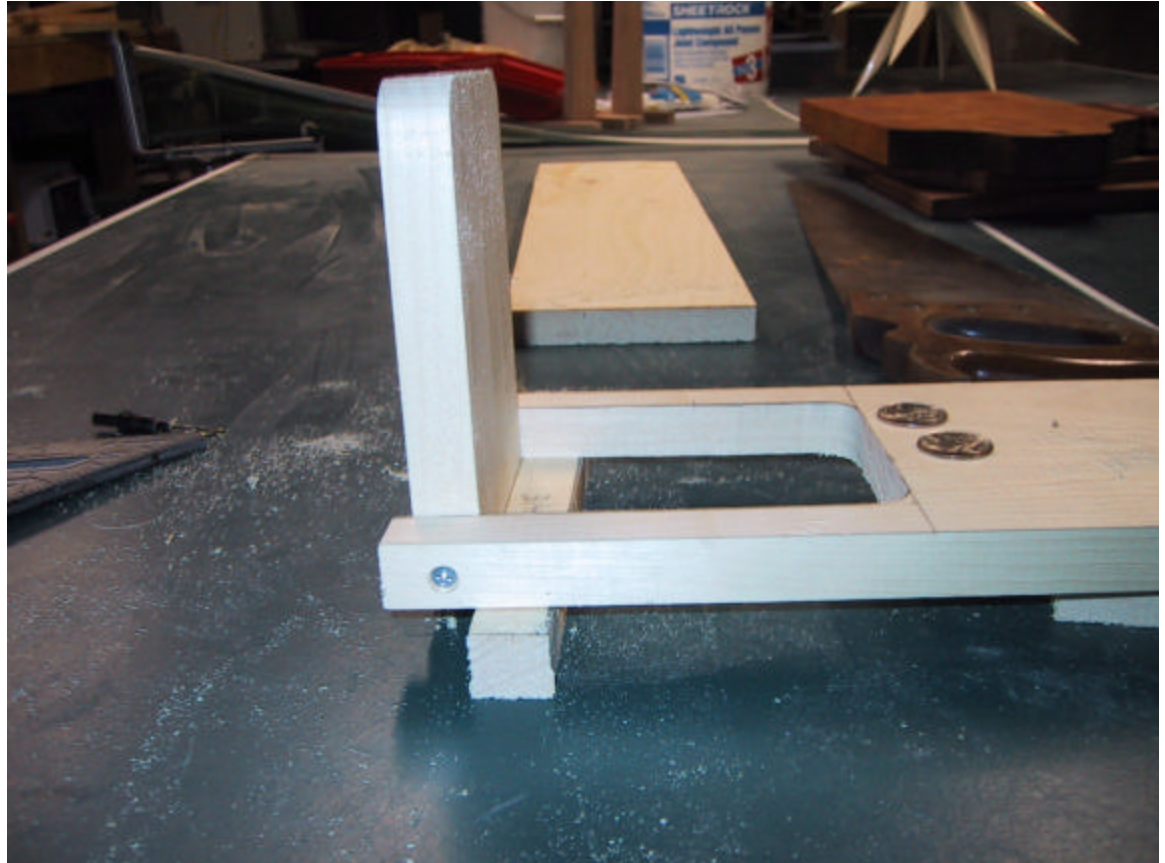
Then using the coping saw, cut the curves and across the board.

In the end, you will have these pieces (on each end).



## Assembly

- 1 Move the ends outwards about the width of two quarters.
- 2 Drill holes where indicated and insert the wood screws
- 3 Fold the ends up until they are vertical and place the feet against them on the underside.
- 4 Mark the position of the feet, then turn the bookshelf over and glue the feet into place.



## Notes

You can have the boys cut other shapes on the ends, they just won't fold down. In that case, glue the feet to the bottom, then set the ends in place and glue the end to the feet.

**Stained and ready to use...**



