

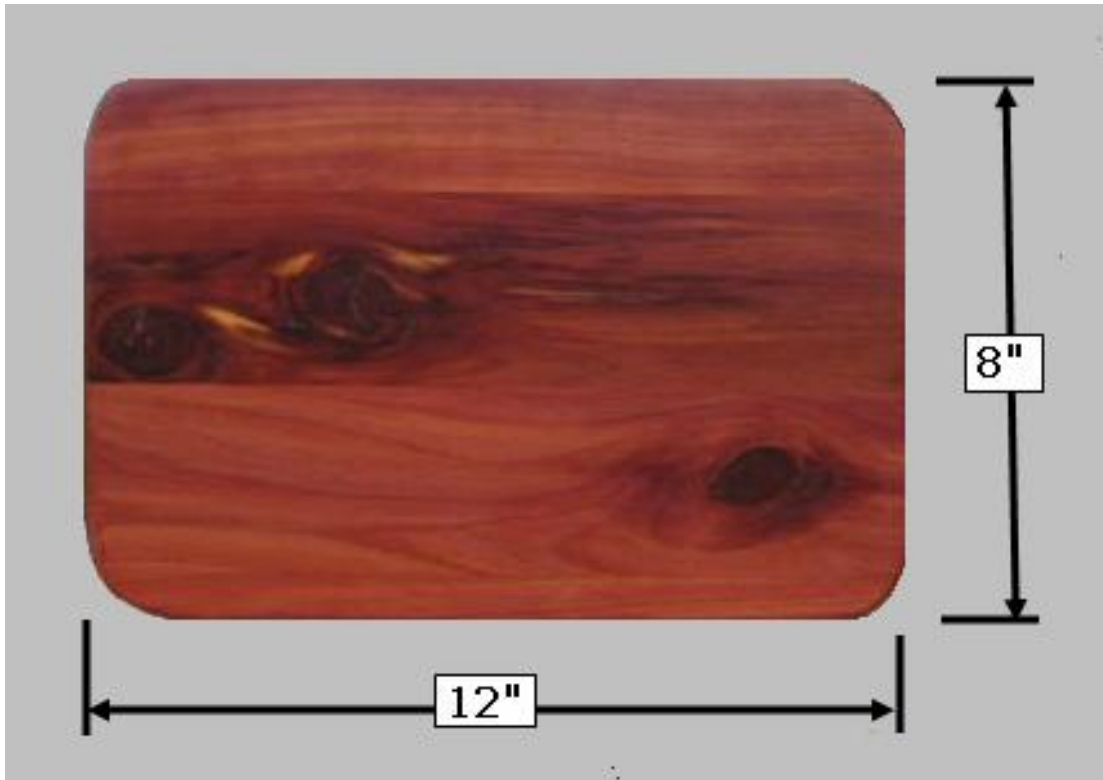
# How To Build A Step Stool

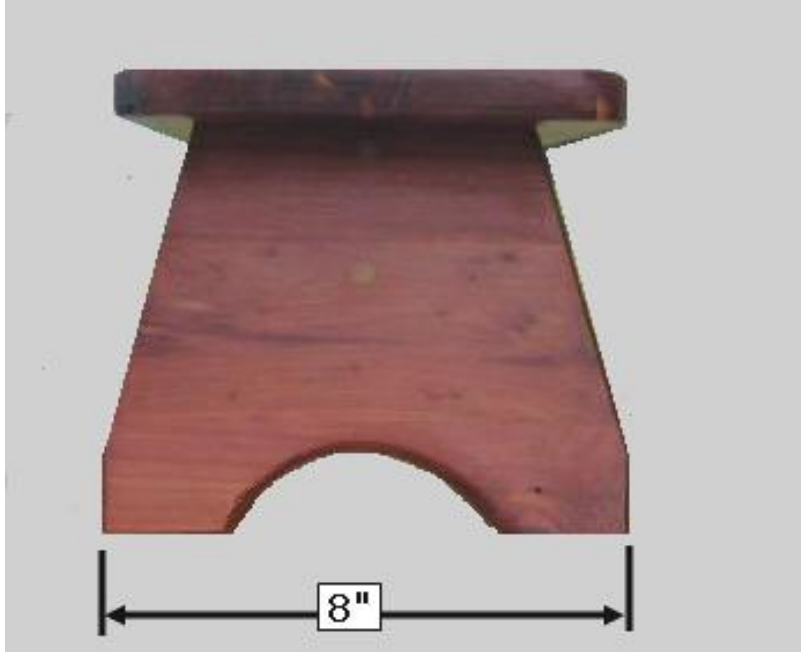
the plans, equipment, ability to build a quality Step Stool as show here.



## Materials

- Two Pieces, 1" rough hardwood: 6" x 38"
- Four 1/4" hole plugs
- Four Wood Screws @ 1 5/8" and Five Kreg Screws @ 1 5/8"
- Four Felt Pads
- Sandpaper
- Wood Filler
- Satin Finish Polyurethane



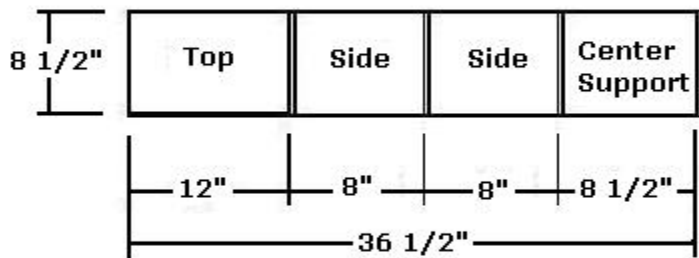




**Step 1: Make the Board Material** - Select the two, one inch hardwood boards

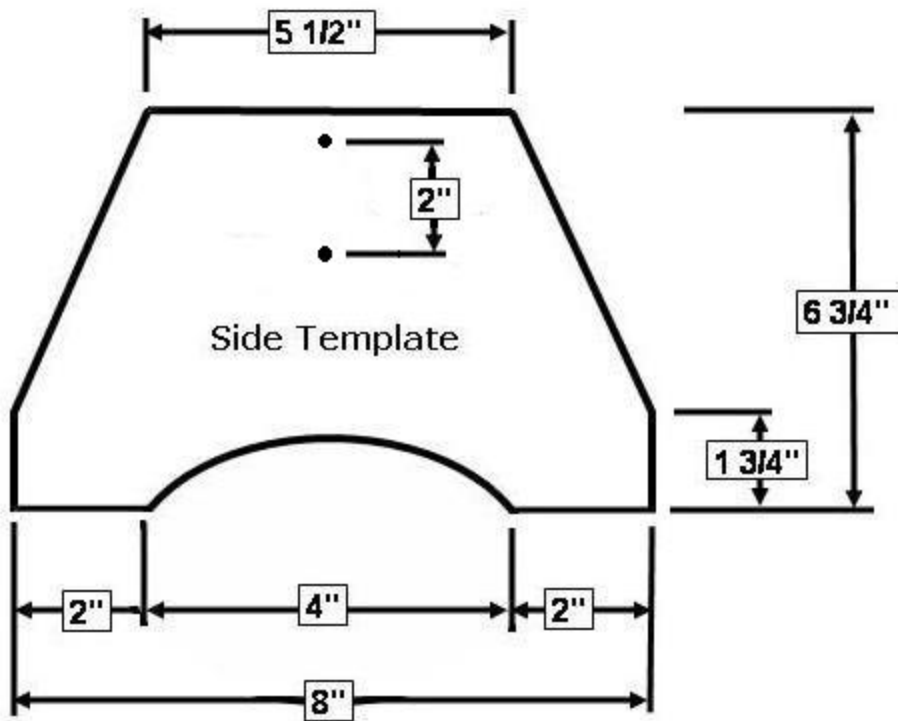
- Rip the rough edge of each board
- Adjust the fence and rip the other rough edge of each
- Both boards have two straight edges
- Glue and clamp the two boards together, alternating the woodgrain
- After the glue has dried overnight, run it through the planer to 3/4"

### Layout

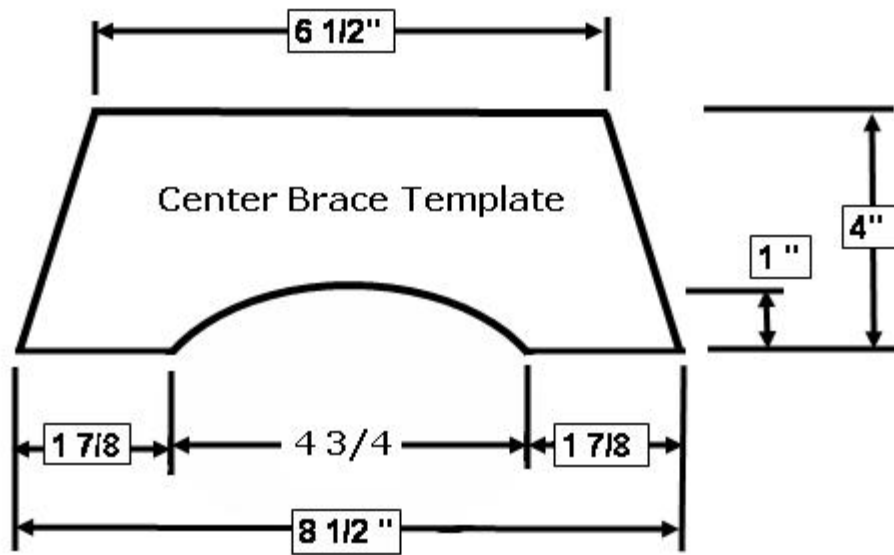


**Step 2: Cut the Pieces to Size** - Select the 11" (Approximate width) x 38"

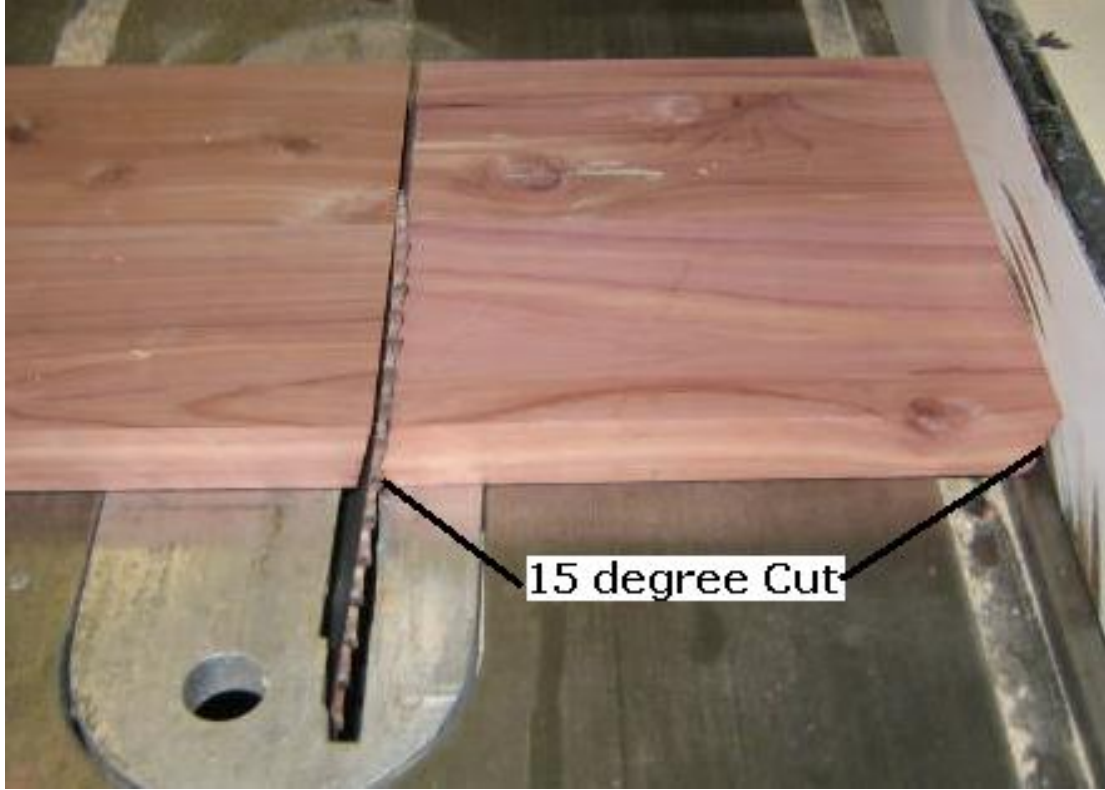
- Rip the board to 8 1/2" (remove material from each edge)
- Crosscut four pieces as shown above



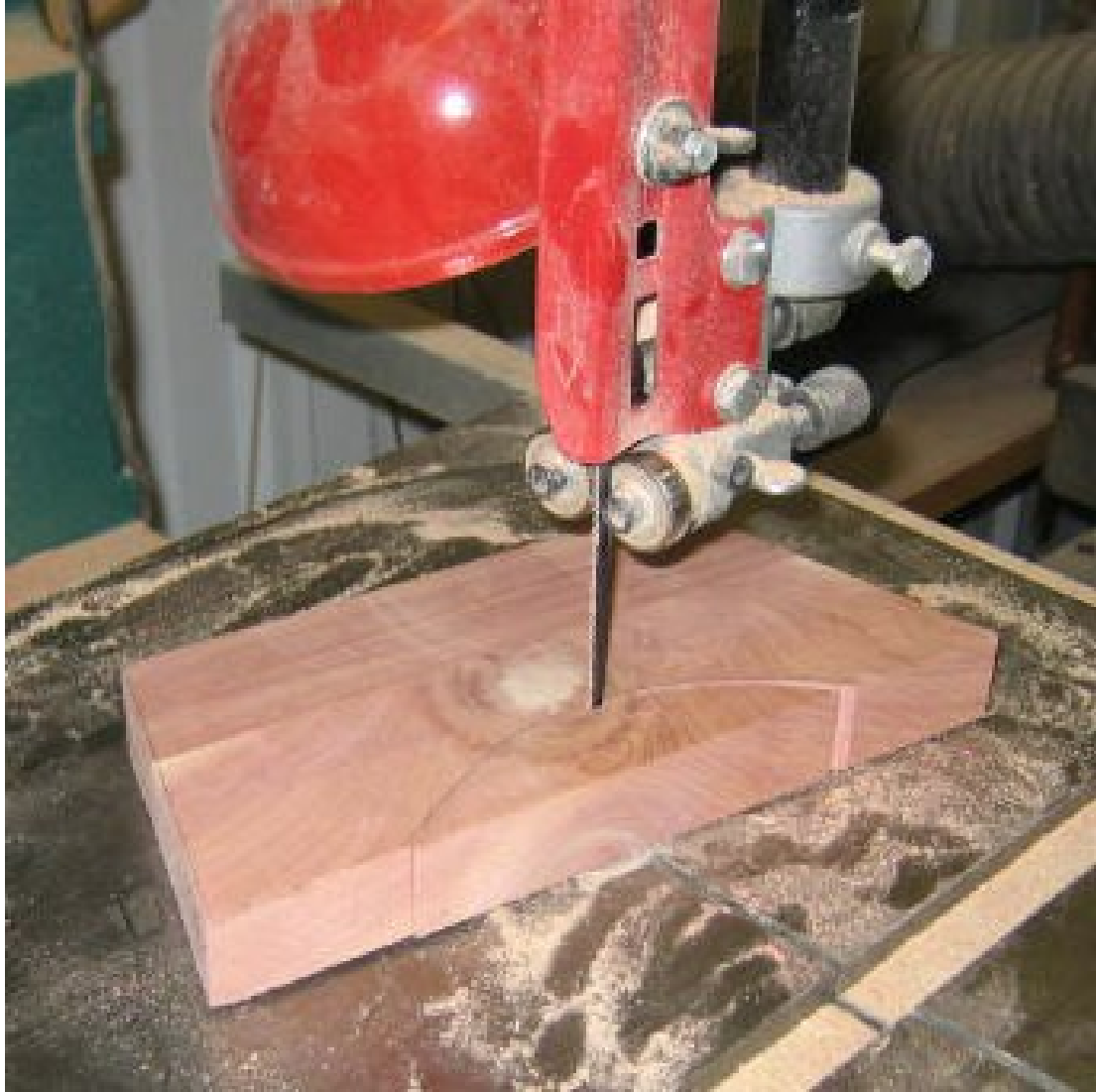
**Step 3: Make A Side Template** - Select a piece of heavy cardboard or thin wood and make a template using the dimensions as shown above.

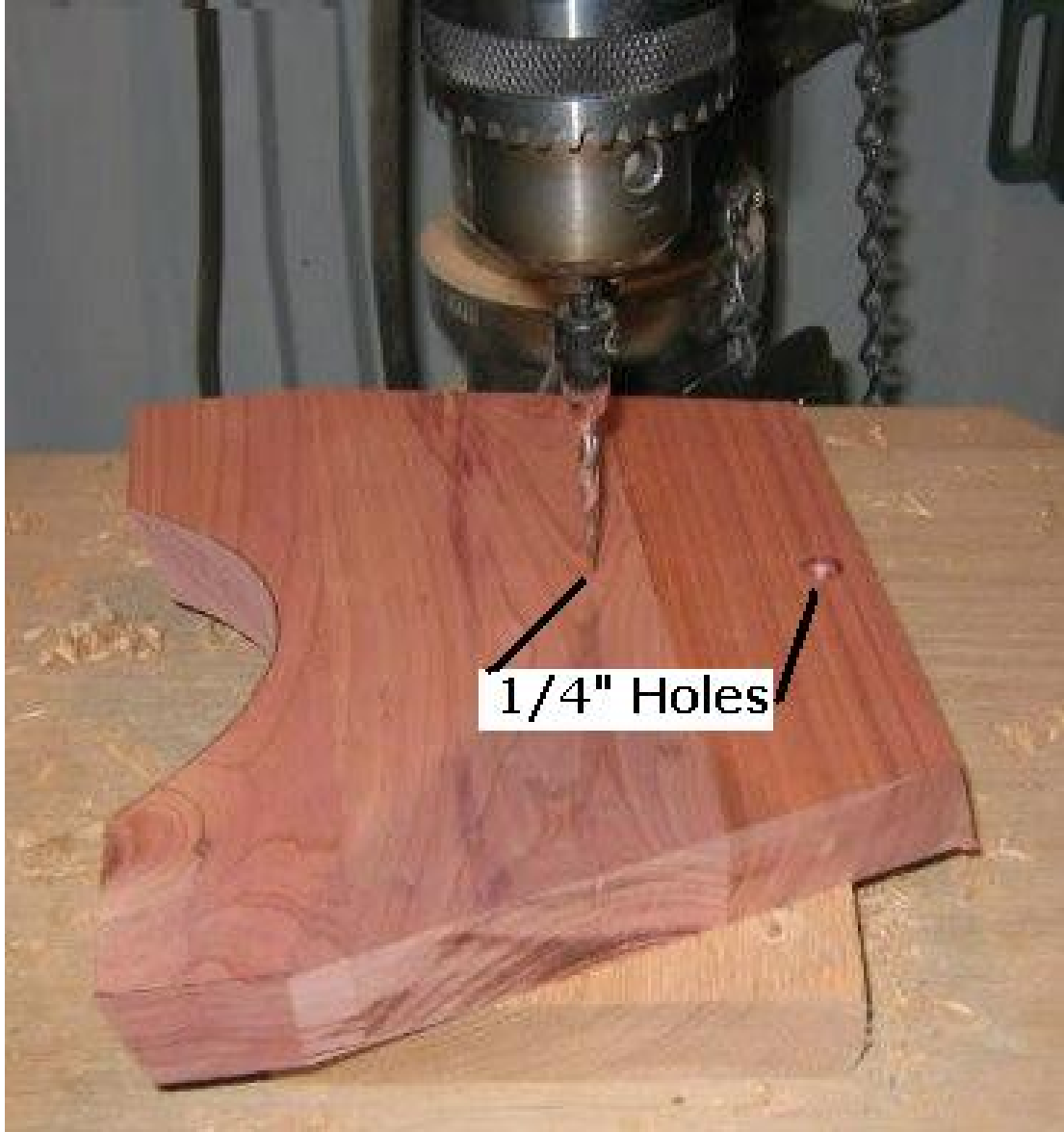


**Step 4: Make A Center Support Template** - Select a piece of heavy cardboard or thin wood and make a template using the dimensions as shown above.







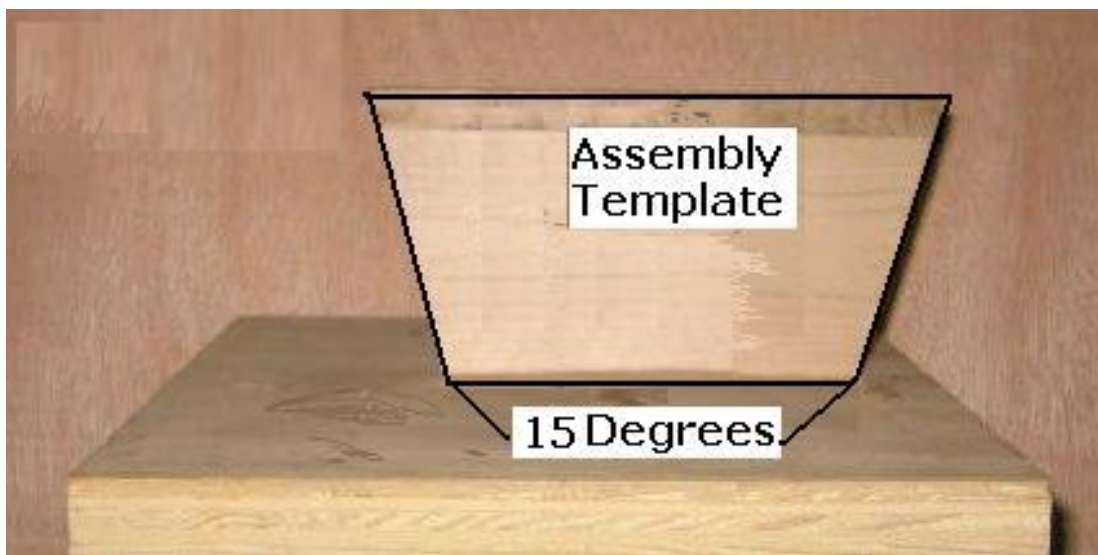




**Step 5: Cut the Sides and Center Support** - Select the Side Template and two, Side pieces; Select the Center Support Template and the Support piece.

- Using the templates, mark, and cut the three pieces as shown above

- Using the drill press, drill four, 1/8" holes with a 1/4" countersunk holes into the exterior side of the two, Side pieces, as shown above
- Using a Kreg Pocket Hole Jig, drill the five pocket holes as shown above; two holes on each side, and one in the center support piece
- Router all edges with a round over router bit (Note: Do not router the top and two side edges of the Center Support piece
- Use a Finishing Sander to sand all pieces prior to assembly







**Step 6: Make an Assembly Jig** - Select some 3/4" plywood and build a 15 degree Assembly Jig as shown above

- Using the jig, glue, and wood screws, assemble the two sides to the Center Support piece, as shown above (Note: Screw home

three screws; set the assembly on a flat surface to ensure all legs are set flat before screwing in the last screw)

- Select four wood plugs and glue them in the holes; use a belt sander to smooth down the plugs
- Select the Top and center the Assembled Base; use the Kreg screws to attach the assembly to the top, as shown above



**Step 7: Finish the Stool** - Select the stool and sand it smooth

- Use a quality polyurethane and apply at least three coats