



Doll's High Chair

Original by:

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Redesigned by:

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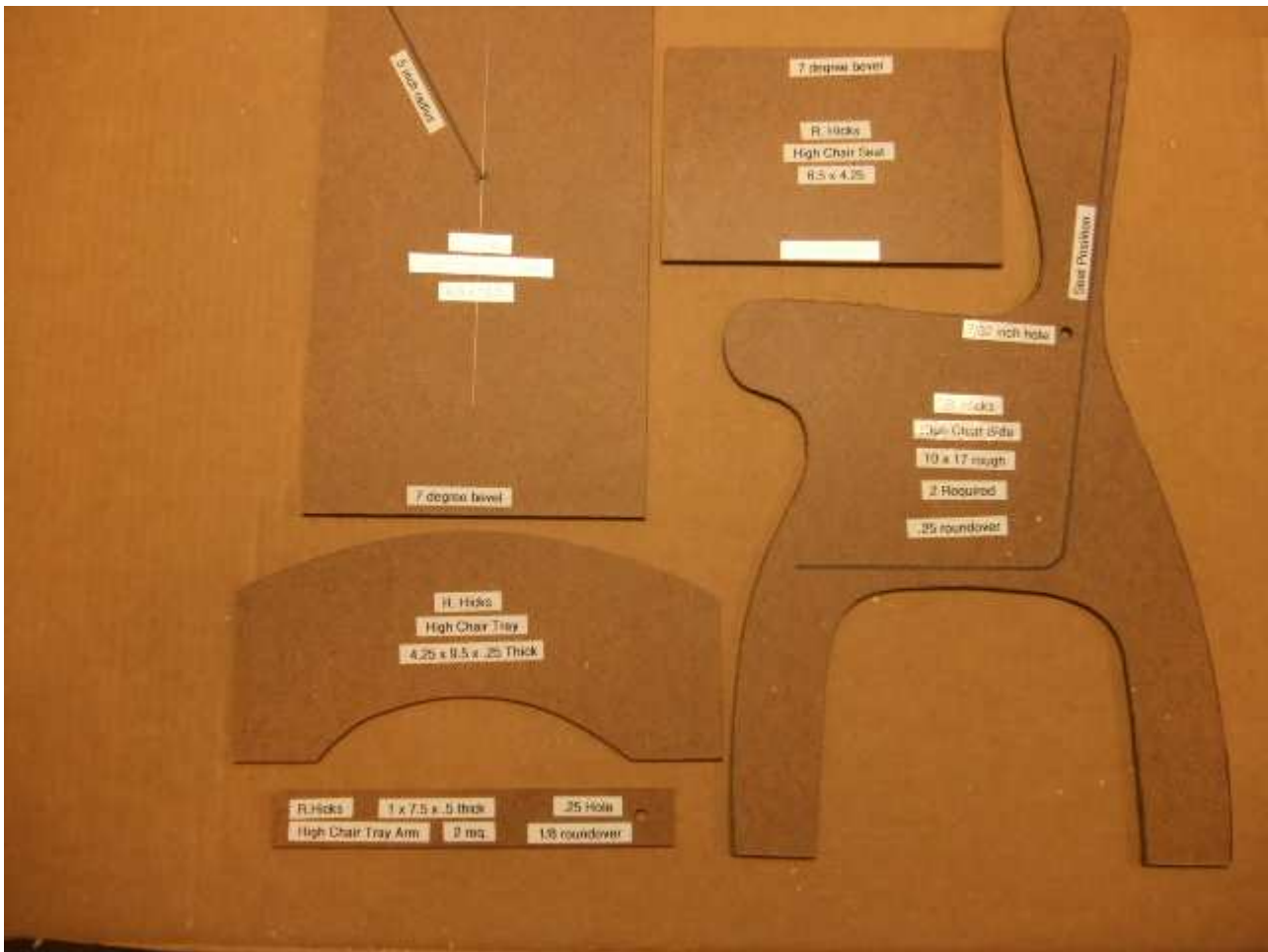
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The high chair has eight parts:

- Two sides
- Two tray supports
- One tray
- One seat assembly (back and seat)
- Two tray attachment pins (AP 1010 axles)

And can be made from a single piece of $\frac{3}{4}$ " x 12" x 4' of white pine shelving material



If you make the chair patterns from $\frac{1}{4}$ " hardboard, you can use a Robo Sander profile drum sander to shape and sand the curved parts.



2" Robo Sander available from:

<http://www.woodworkingshop.com>

For \$19.95

Contact Richard Hicks for a copy of the patterns:

rhicks4@gt.rr.com

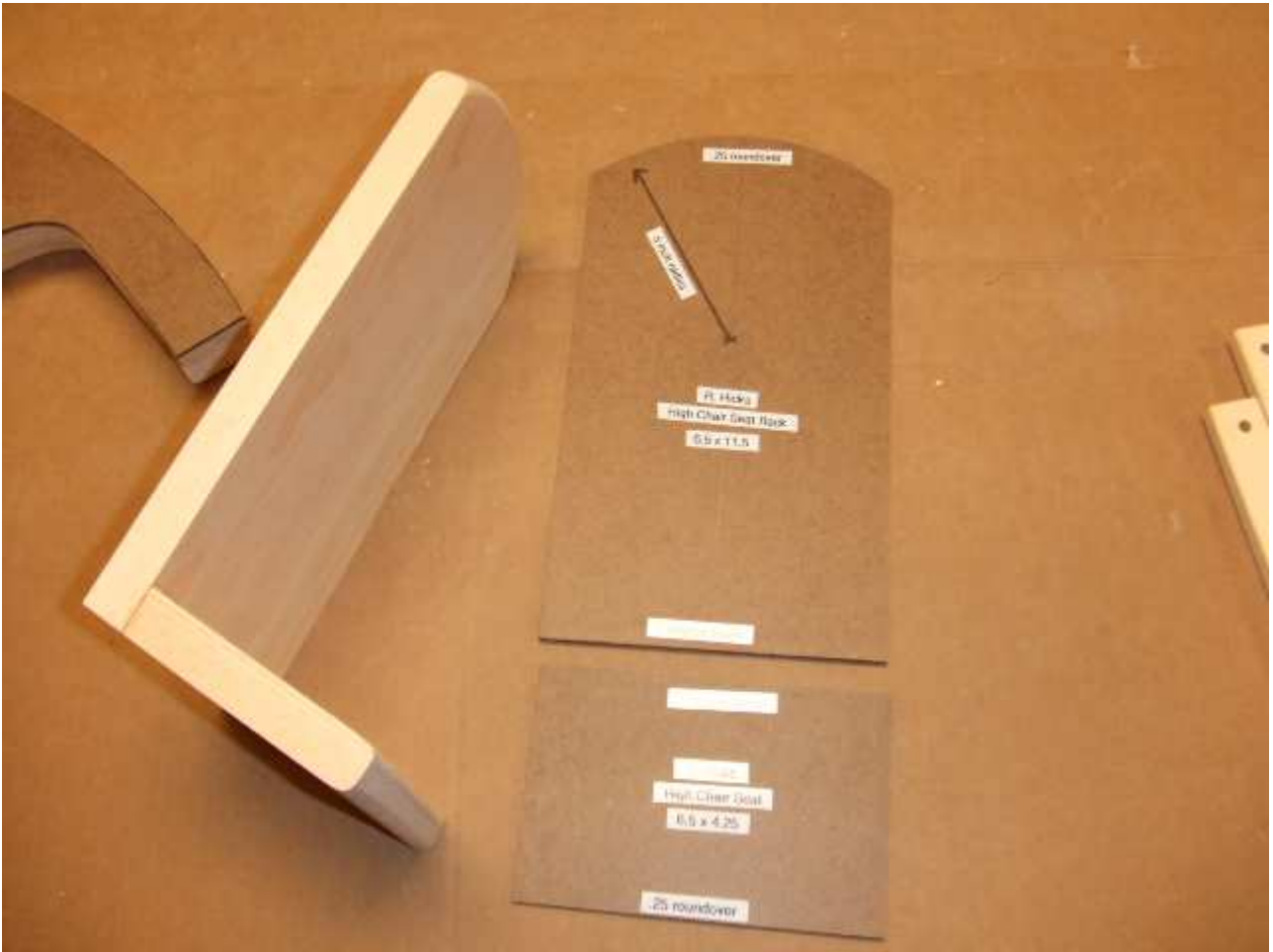


The sides are made from $\frac{3}{4}$ " material (I used white pine). It takes two sides for the chair. They are mirror images of each other and can be made from the same pattern. They are roughly 10" x 17". By intertwining the patterns, you can make both sides from a 28" long piece of material. Align the end of the legs on the pattern with the edge of the board.

Save the pieces trimmed from the sides to make the tray supports.



Use the pattern to locate and drill the $\frac{7}{32}$ " hole for the tray support pin and the four $\frac{1}{8}$ " holes for the seat locating pins on both sides. Use a $\frac{1}{4}$ " bit to round over all of the edges - EXCEPT the ends of the legs.



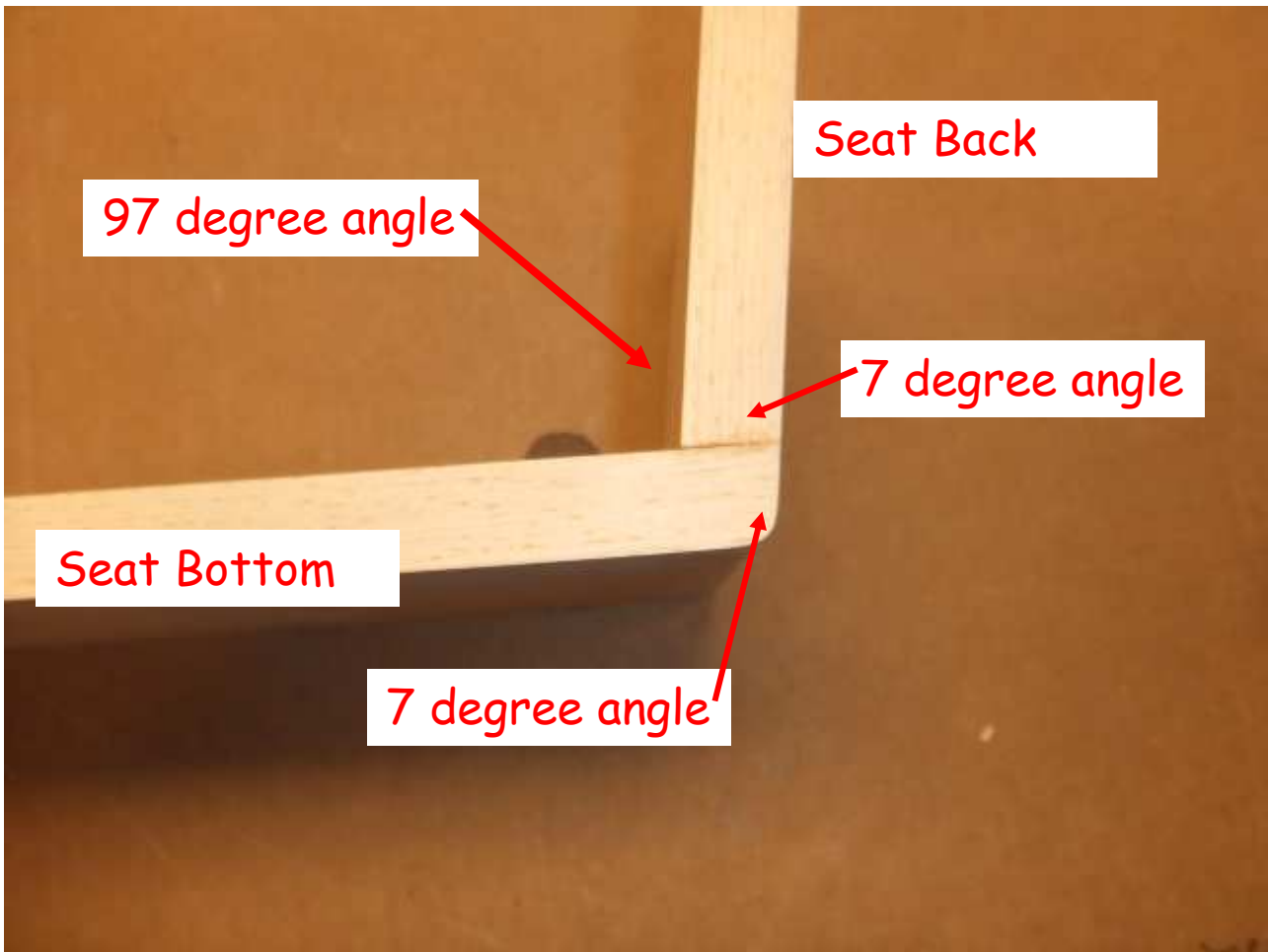
The seat is made from two pieces of $\frac{3}{4}$ " material.

The seat back is $6\frac{1}{2}$ " \times $11\frac{1}{2}$ " with a 5" radius curve at the top and a 7 degree angle at the bottom. The top is rounded over $\frac{1}{4}$ ".

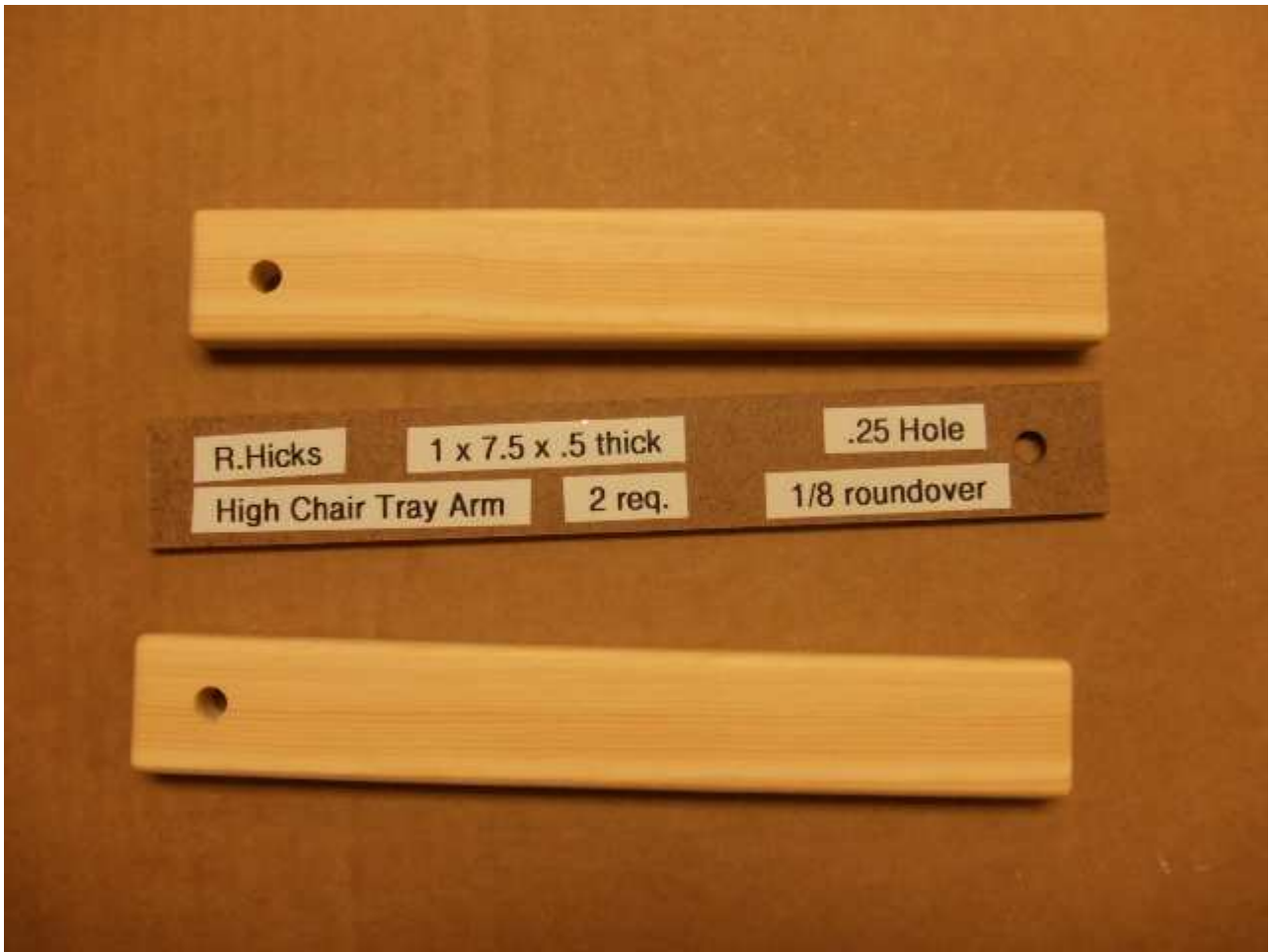
The seat bottom is $4\frac{1}{4}$ " \times $6\frac{1}{2}$ " with a 7 degree bevel on one side and the front is rounded over $\frac{1}{4}$ ".



Glue the two seat pieces together so that they form a 7 degree angle.



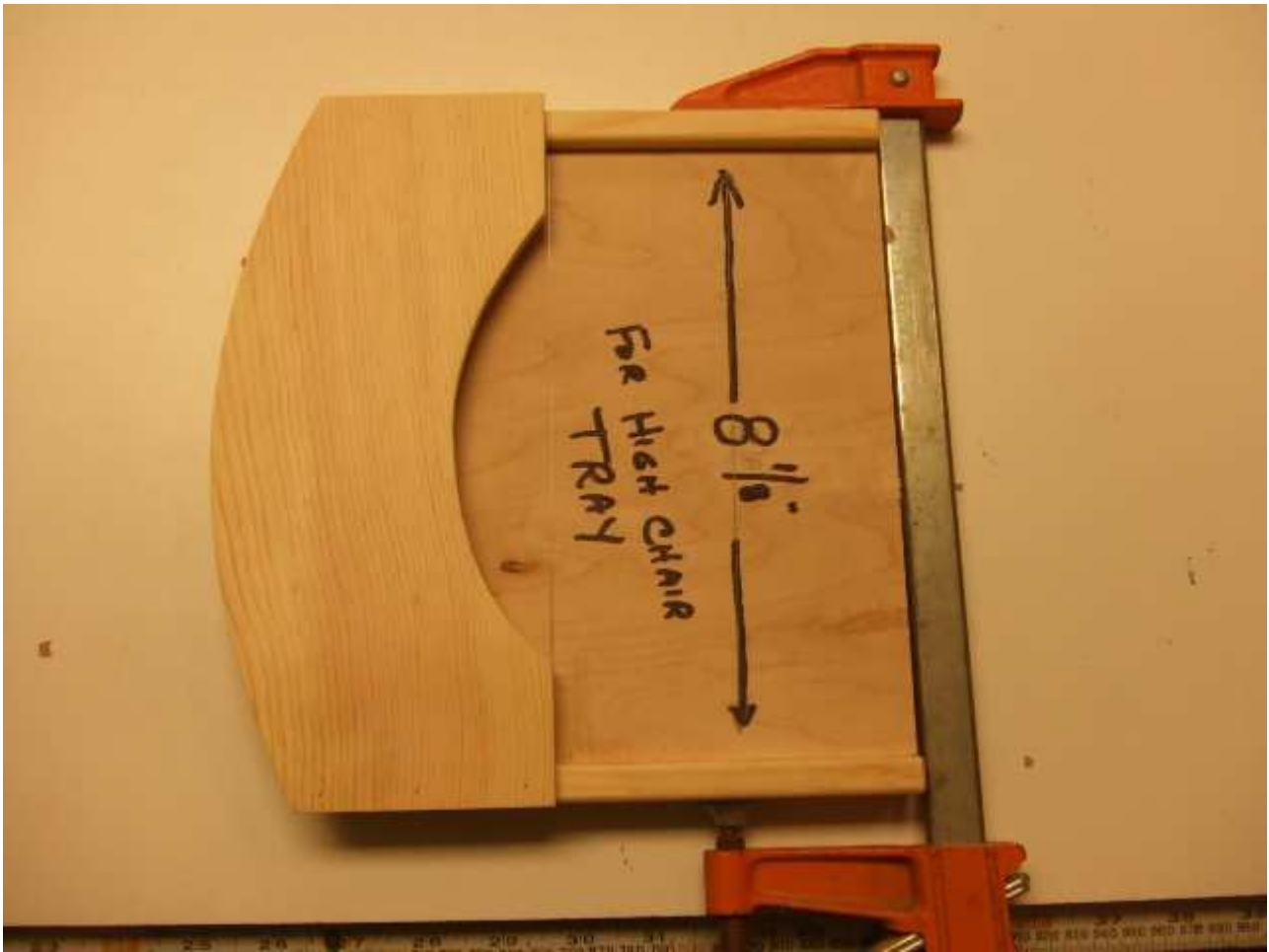
After the glue dries, sand the seat assembly and round over the back edge.



Take the trim pieces left from the sides and plane them to $\frac{1}{2}$ " thick and make two tray supports 1" x 7". Round over all of the edges with a $\frac{1}{8}$ " bit. Drill a $\frac{1}{4}$ " hole centered $\frac{3}{4}$ " from one end for the tray support pin. Use an AP1010 axle for the tray support pin.

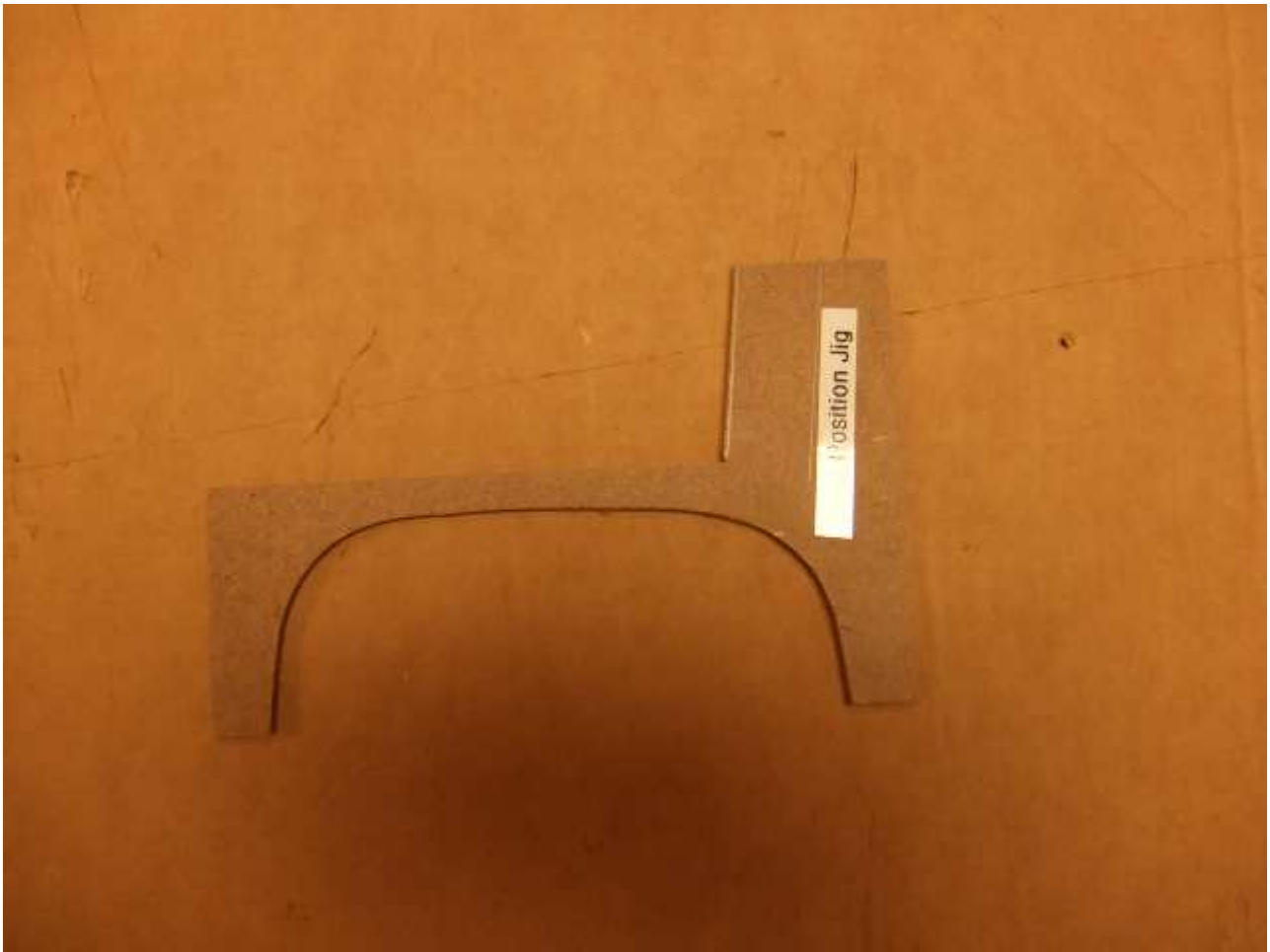


The tray is made from a piece of $\frac{1}{4}$ " material and is $4\frac{1}{4}$ " x $9\frac{1}{8}$ ". After cutting and shaping the tray, sand and round over the edges with sandpaper.



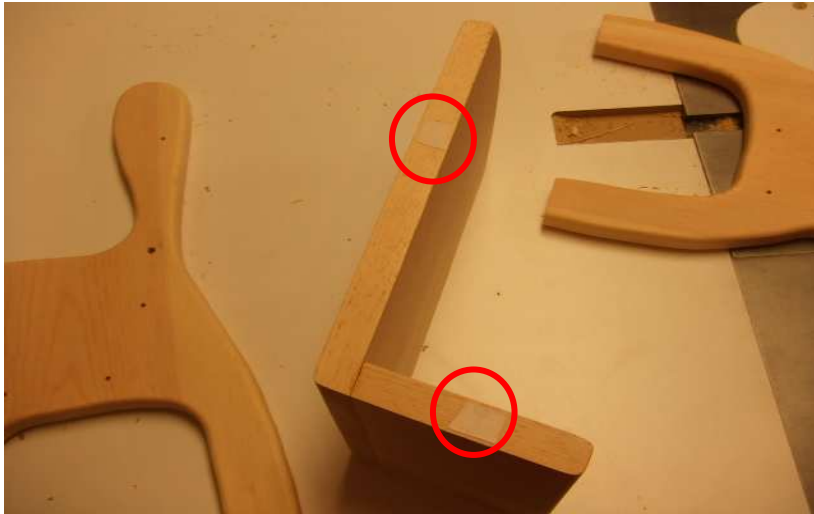
Glue the tray to the tray supports, $4\frac{1}{2}$ " from the end that has the $\frac{1}{4}$ " hole.

I used a block of plywood $8\frac{1}{8}$ " wide to be sure that the tray supports were at a right angle to the tray when I glued them. I didn't use fasteners to attach the tray to the supports.



Construct a seat positioning jig in order to properly align the seat on the side of the chair.

Assembling the High Chair



Put two small pieces of double stick tape on one edge of the assembled seat.



Temporarily attach the seat assembly to one side using the seat positioning jig and double stick tape.



Position the other side of the chair to the seat and align it so that all four legs sit squarely to the ground and clamp.



Drill through the four 1/8" side mounting holes $\frac{3}{4}$ " into the edge of the seat assembly.



Unclamp and disassemble by removing the tape. Glue $1\frac{1}{4}$ " long $1/8$ " dowels in all eight holes flush to the outside surface of the side.



After the glue dries, assemble the chair by gluing the sides to the seat with clamps. Sand the dowels flush with the side.