

You will need the following materials for each chair:

- Four 8' 2x4s (seven per pair of chairs)
- Scrap piece of plywood for a seat (15"x19")
- Some type of foam for a cushion
- Fabric, vinyl, or leather of choice for the seat
- Wood glue
- I used four pocket hole screws to attach the seat

Step 1

Before I cut any wood I planed mine to make sure they were exactly the same thickness. This step is not 100% necessary but it does make the half lap joints a little more trouble free.

Step 2

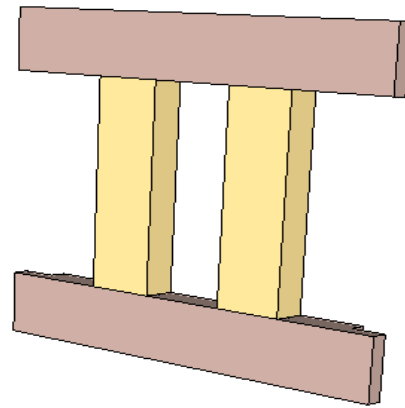
In no particular order, cut all of your pieces to length and rip them down to 3" wide. Make the rip cuts in two passes so that you remove the rounded edges from both sides of the 2x4s.

Step 3

Make all of your half lap cuts according to the cutting diagram. Omit the second cut on the tall legs at this point (17-1/4" from the ground). This cut will be made once the back is put together.

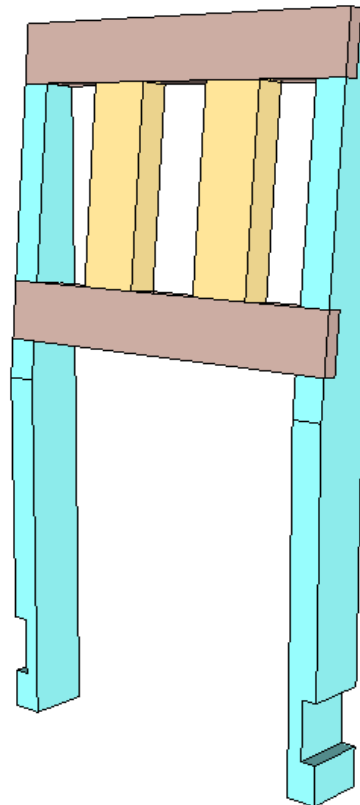
Step 4

Assemble the back. This project will be a lot of gluing, clamping, and waiting.



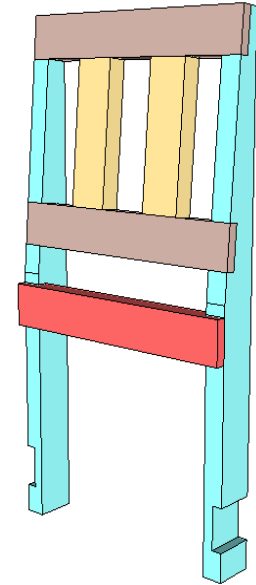
Step 5

Add the back legs. More glue, clamping, and waiting.



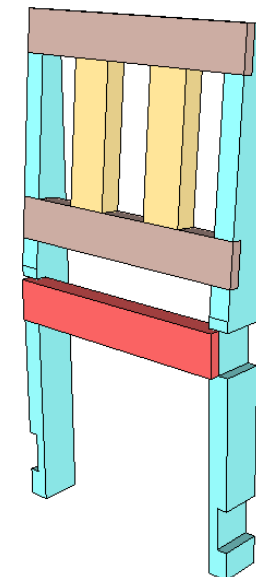
Step 6

Add the back seat support. The top of this should be positioned 17-1/4" off the ground.



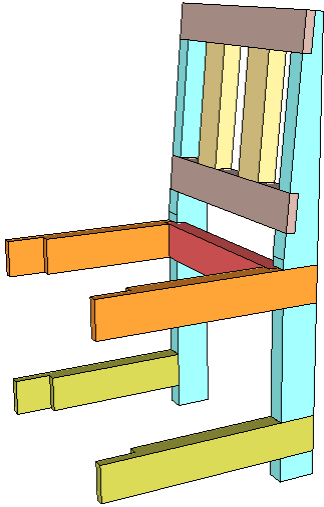
Step 7

With the back seat support glued in place you can now cut the last half laps on the back legs



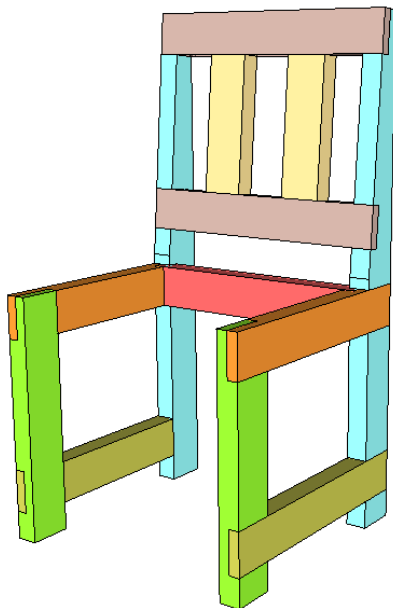
Step 8

Add the upper and lower horizontal side pieces. More glue, clamping, and waiting.



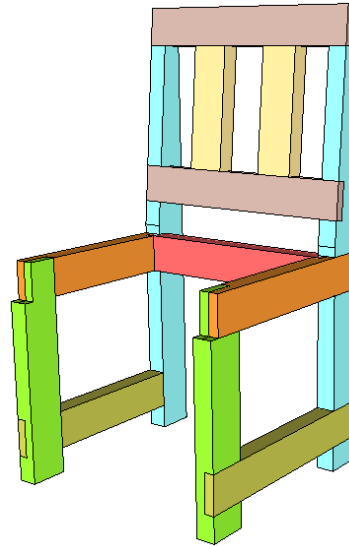
Step 9

Add the front legs. More glue, clamping, and waiting.



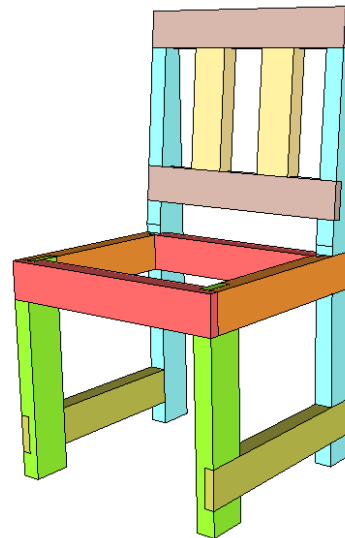
Step 10

Cut the last remaining half laps. These are at the top of the front legs to accept the front seat support.



Step 11

Add the front seat support. More glue, clamping, and waiting.



Step 12

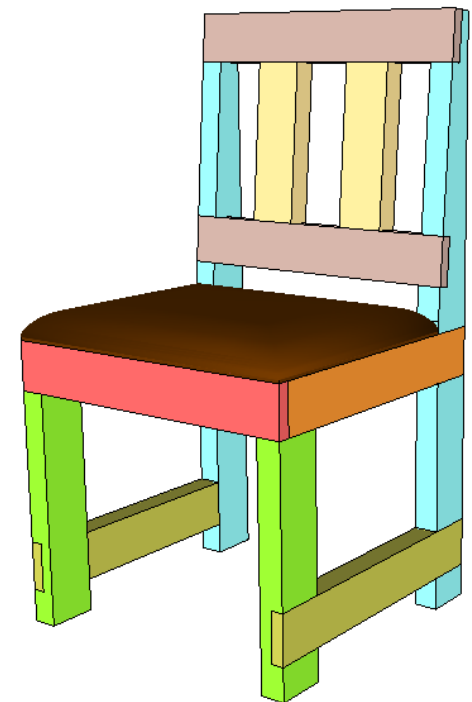
Use whatever materials you picked out to upholster the seat. Additionally you could opt for a solid wood seat but I didn't go that route. Also, decide how you want to attach the seat to the frame. I used two pocket holes on the inside faces of the front and back seat supports.

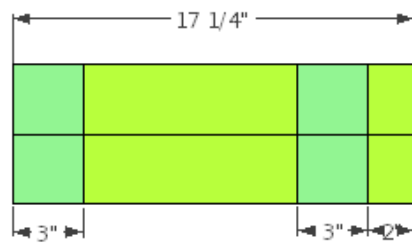
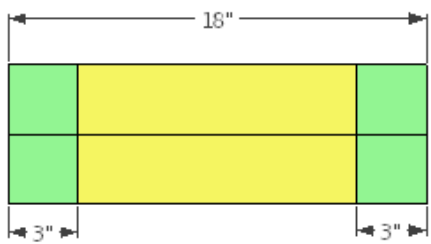
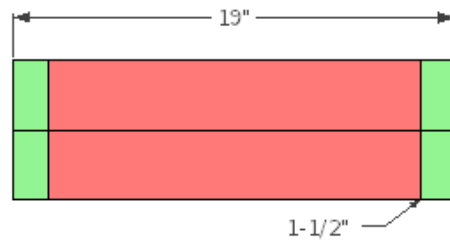
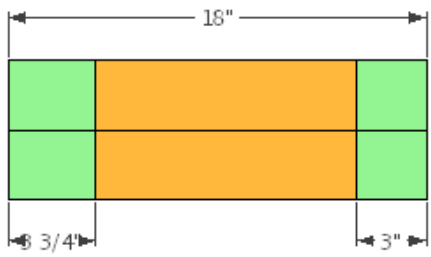
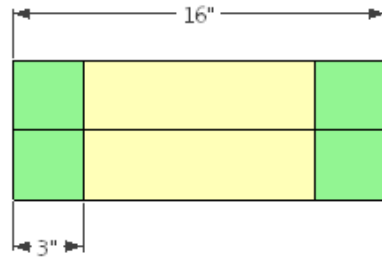
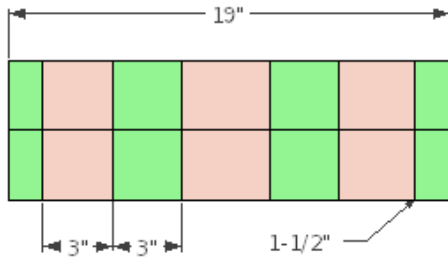
Step 13

If you decide to apply a finish to the chair now is the time. I used some left over Minwax Early American stain and sprayed several coats of lacquer.

Step 14

Attach the seat





COMMON GREEN REPRESENTS HALF LAP
 ALL PIECES 1-1/2" THICK AND 3" WIDE
 FOUR 8' 2X4 NEEDED. CUT PIECES IN THIS ORDER
 36 19 19 18
 36 19 19 18
 18 18 17-1/4 17-1/4 16
 16

