

Mobile Workbench Plans



by

Our Home from Scratch

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Attempt at your own risk. Some woodworking skills are required.

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Introduction

The plans for this workbench were developed from the workbench I currently own. While it can probably be used for any general purpose task, I specifically built mine to accommodate my cabinet making needs. To that end, I incorporated a Kreg Track for easier pocket screw joint assembly. If you don't think you'll be doing much pocket hole joinery, you can skip that piece. I'm also a bit shorter than most people (5' 7") and I designed this project to be comfortable to work on for me. If you are a taller person feel free to add a few inches to the leg length; same goes for the shorter folks. Since I often move this table around my workshop, I added some 4" caster wheels to make that task much easier. If you don't think you'll need the mobility, you can skip the wheels, just be sure to make the legs 4" longer. Feel free to customize this workbench as your needs require.

As far as the finished top goes, I prefer melamine due to its hard, smooth and cleanable surface. It's especially resilient to liquid spills. MDF is also a nice option, but isn't quite as impervious to liquids and requires a more serious respirator to safely cut it.

If you get stuck on any particular part of these woodworking plans, feel free to email me at John@ourhomefromscratch.com with any questions you may have. You may also find our blog's post on [How to Build a Workbench](#) helpful since the bench detailed in that post is very similar to the one described in this procedure.

I hope you get as much use out of your workbench as we have from ours.

Materials List:

<u>Required Items</u>	<u>Quantity</u>
1. 2" x 4" x 8'	8
2. 1/2" x 4' x 8' BC Grade Plywood	2
3. 3/4" x 4' x 8' Melamine or MDF	1
4. 2 1/2"- Long, Coarse Pocket Screws	Box of 50
5. 2 1/2" – Long Wood or Drywall Screws	Box of 50
6. 1" – Long Wood Screws	Box of 50
7. Construction Adhesive (Liquid Nail or Similar)	1 Tube
8. Metal Corner Brackets	4

<u>Optional Items</u>	<u>Quantity</u>
9. Caster Wheels (4" or 5")	4
10. Kreg KKS1020 Track	1
11. Kreg KKS-BK Bench Klamp	1

Procedure:

1. Begin the construction process by cutting the 2x4s into the parts listed in Table 1. Each piece should be labeled with their respective letters and separated into their sections (legs, bottom support, top support). Separating them will help organize the process and help prevent mistakes during assembly.

Table 1: 2x4 Lengths and Quantities

Legs	Length Each (inches)	Quantity
A	27 ³ / ₄ with wheels (31 ³ / ₄ without)	4
B	6	4
Bottom Support	Length Each (inches)	Quantity
C (short)	31	2
D (long)	55	2
E (ribs)	28	3
Top Support	Length Each (inches)	Quantity
F (short)	31	2
G (long)	51	2
H (ribs)	31	3

2. Cut the plywood sheets into the final dimensions listed in Table 2. Again, label each sheet after cutting.

Table 2: Plywood Dimensions

Finished Top width	36
Finished Top length	60
Top width	34
Top length	58
Bottom width	31
Bottom length	58

3. The assembly will start with the legs (Figure 1). Glue and screw a 'B' board onto each 'A' board flushing up the ends (Figure 2).

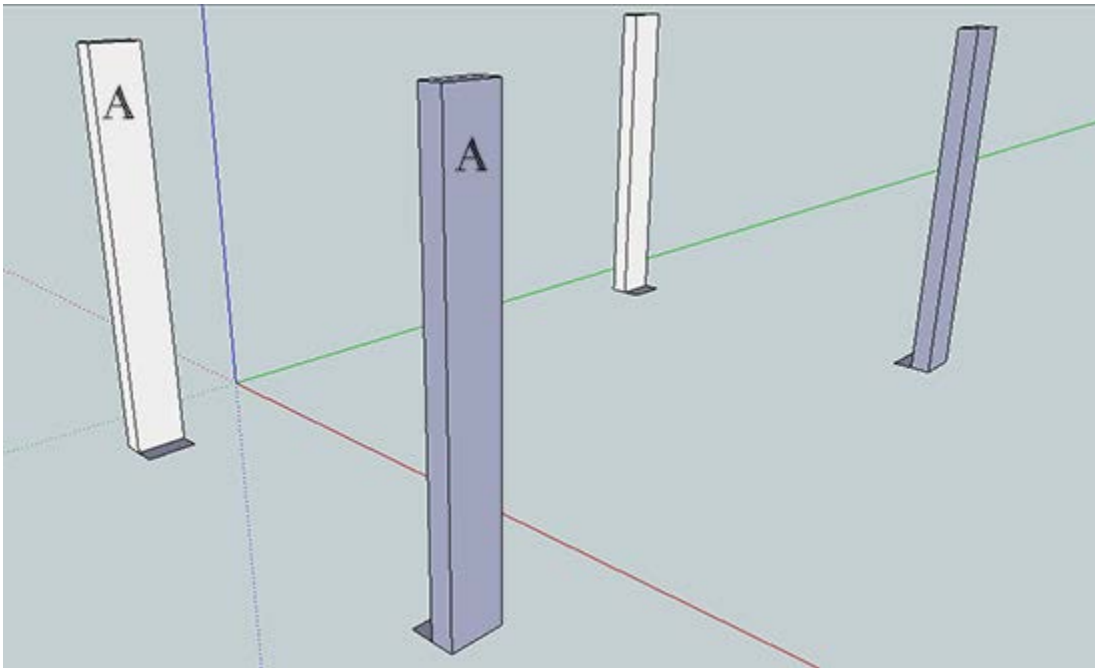


Figure 1: Legs

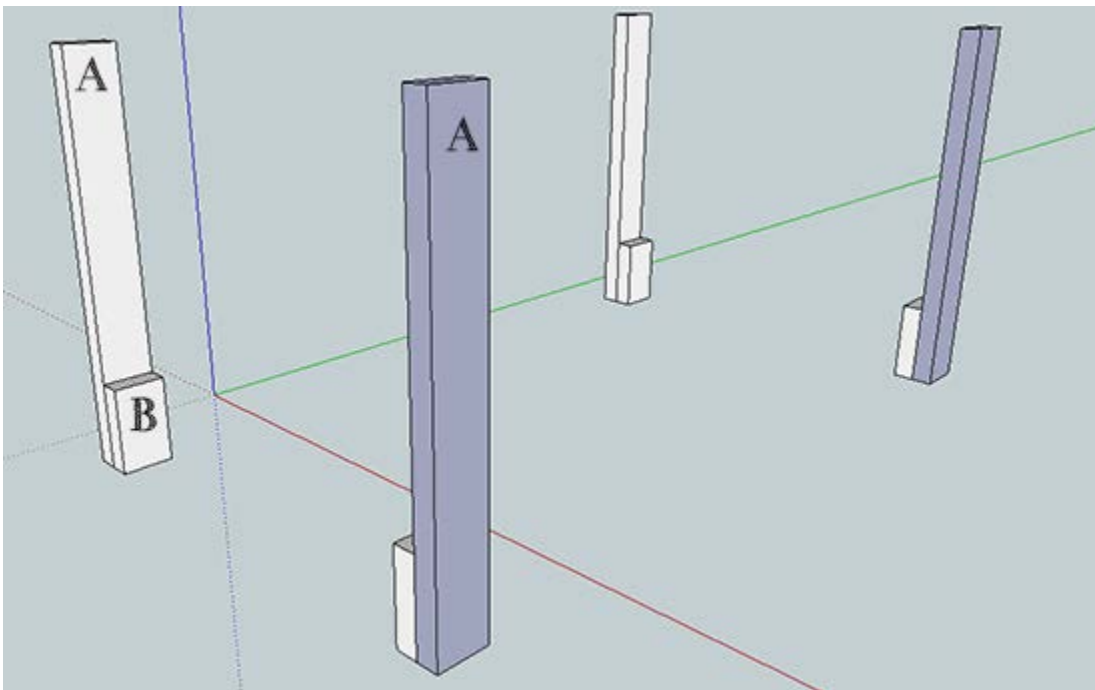


Figure 2: Legs with Bottom Shelf Support

4. With the legs built, insert board 'C' between two 'A' legs and rest it on the 'B' boards. It can be secured to the 'A' and 'B' boards by using pocket screws from 'C' into 'A' or by using long wood screws inserted from the outside of 'A' into 'C' (Figure 3).
5. Repeat Step 4 with board 'F', flushing the top of the board with the top of the 'A' boards (Figure 3) and with the outer edge.

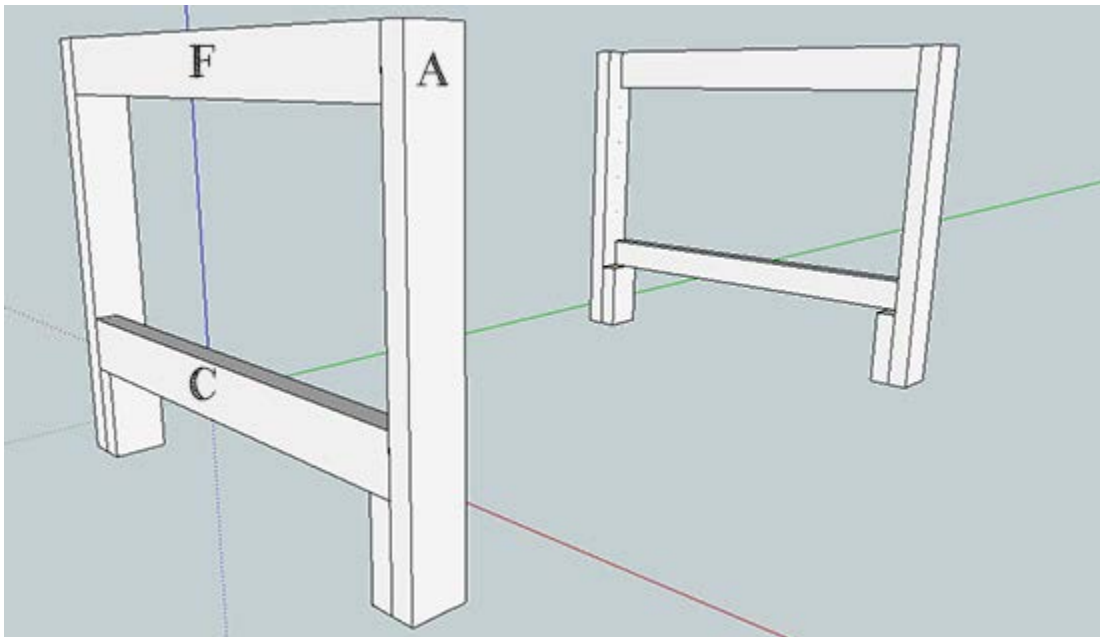


Figure 3: Side Supports

6. Attach the 'G' boards to the 'A' boards using pocket screws. Make sure the top of the 'A' boards are flush with the 'G' boards (Figure 4).

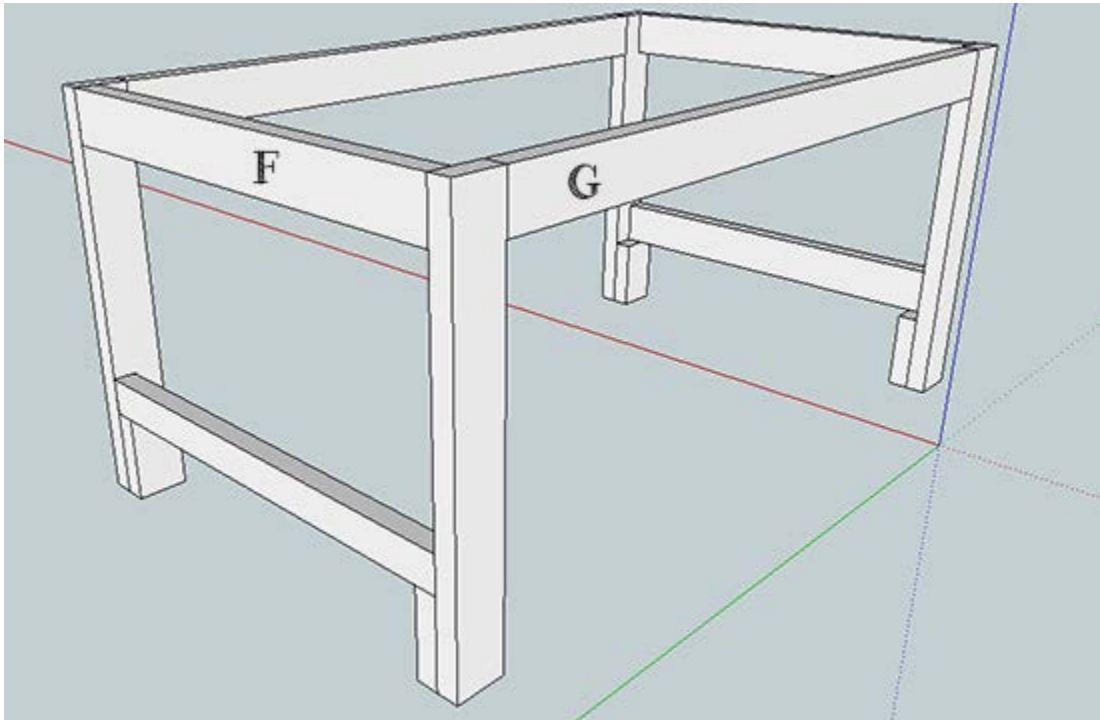


Figure 4: Top Long Supports

7. Rest the 'D' boards on the top of the 'B' boards and attach the 'D' boards to the 'C' and 'A' boards using glue and either pocket screws or long wood screws similar to Step 4 (Figure 5).

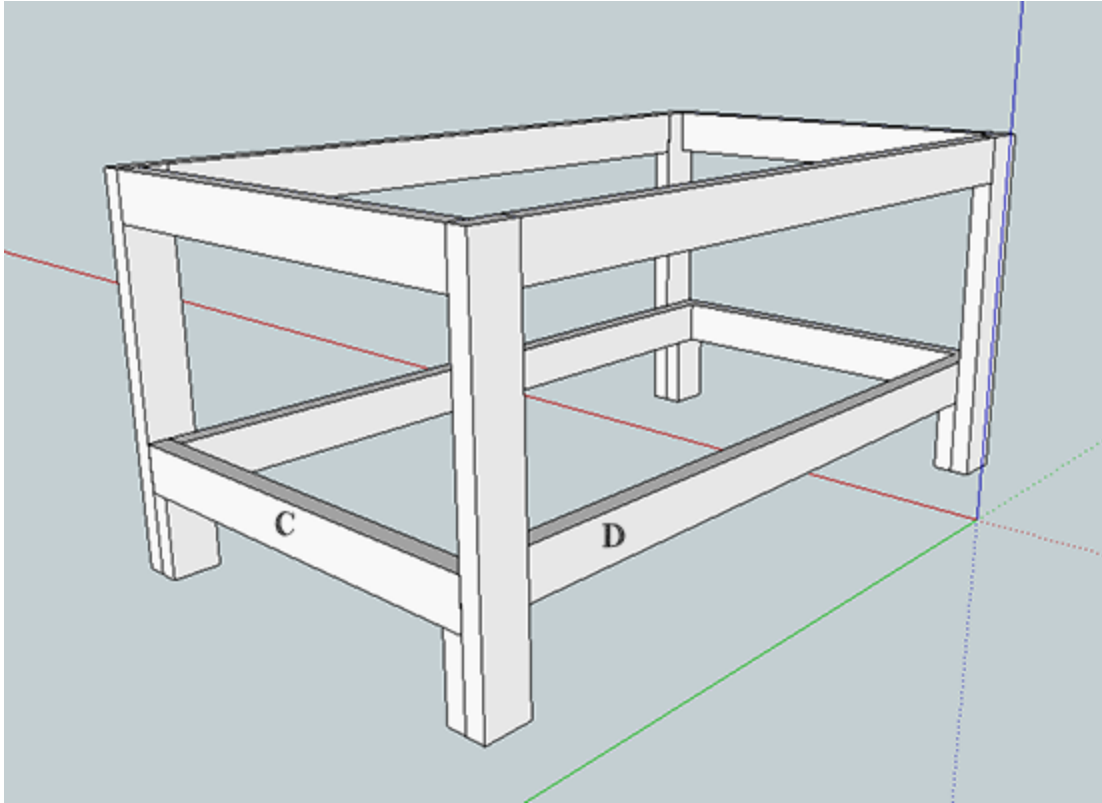


Figure 5: Bottom Long Supports

8. With the outer structure built, it's time to add the bottom and top ribs. The bottom ribs, the 'E' boards, get secured to the 'D' boards. Place the first one in the center of the 'D' span and the second and third pieces equally spaced on either side of the first board. Repeat this step for the top ribs: the 'H' boards (Figure 6).

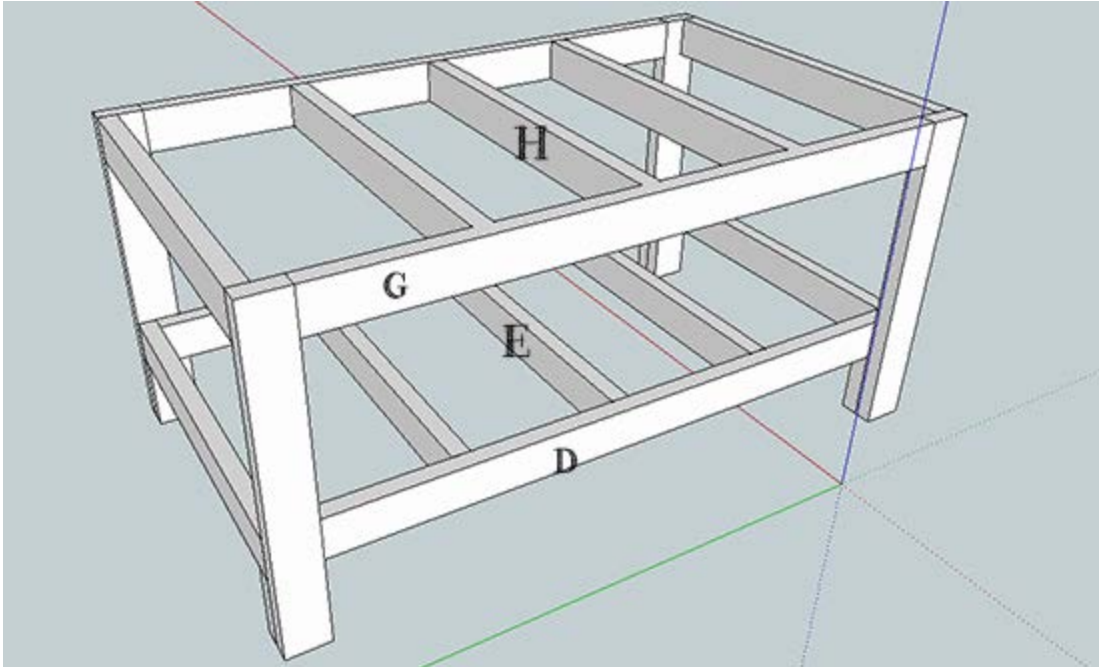


Figure 6: Support Ribs

9. Using glue and the 1" long wood screws, secure the top and bottom plywood sheets to the frame (Figure 7).

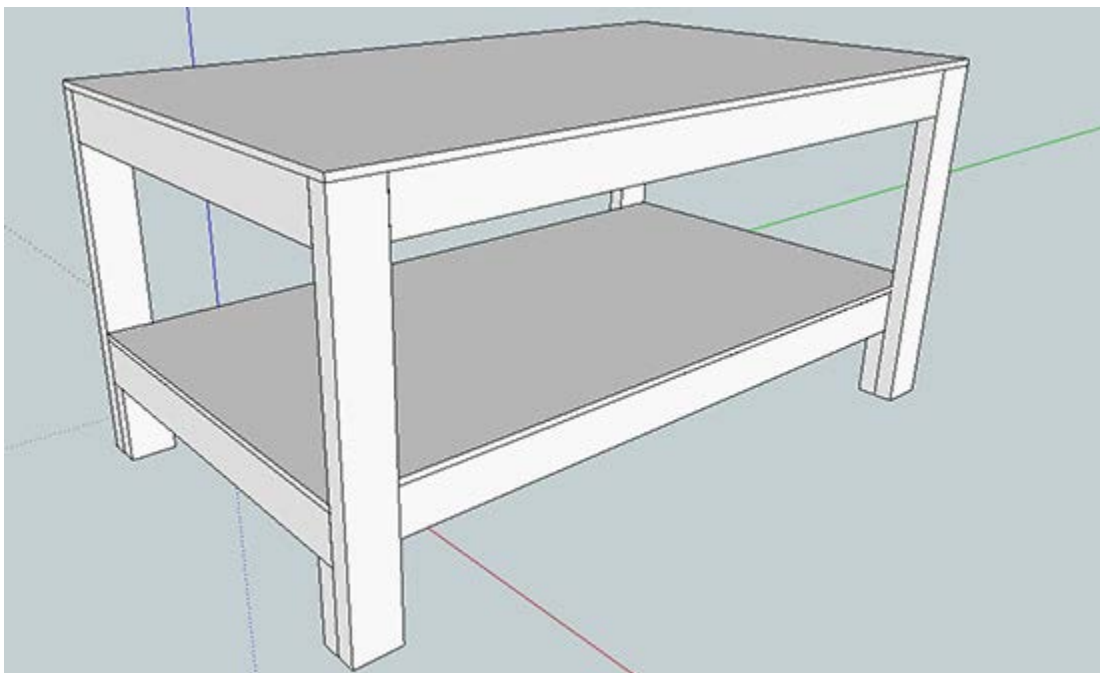


Figure 7: Plywood Attached

10. The finished top sheet of melamine or MDF can be attached to the table using glue and either screws from below or pocket screws from the side 'F' and 'G' boards (Figure 8). The dimensions for the finished top include a 1" overhang in every direction. If you want to add the Kreg Track, just cut the finished board into two pieces and insert the track between the two sections.

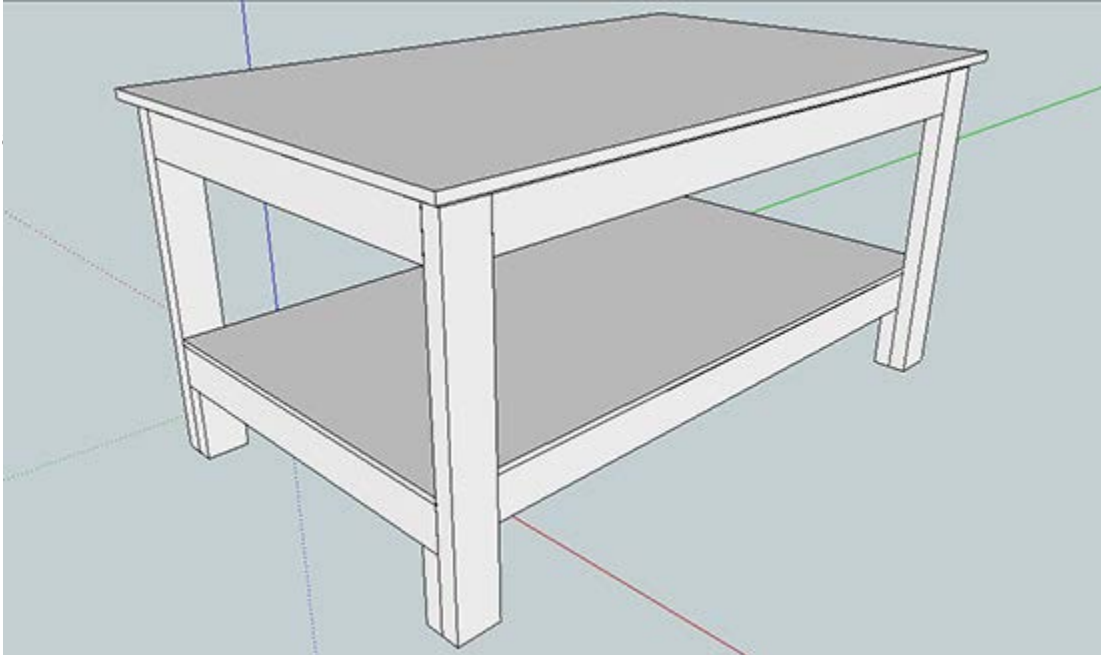


Figure 8: Finished Top Attached

11. If you opted for the wheels, they can be screwed into the legs from below. Have someone help you lift or tilt the table to get access to the bottom of the legs (Figure 9).

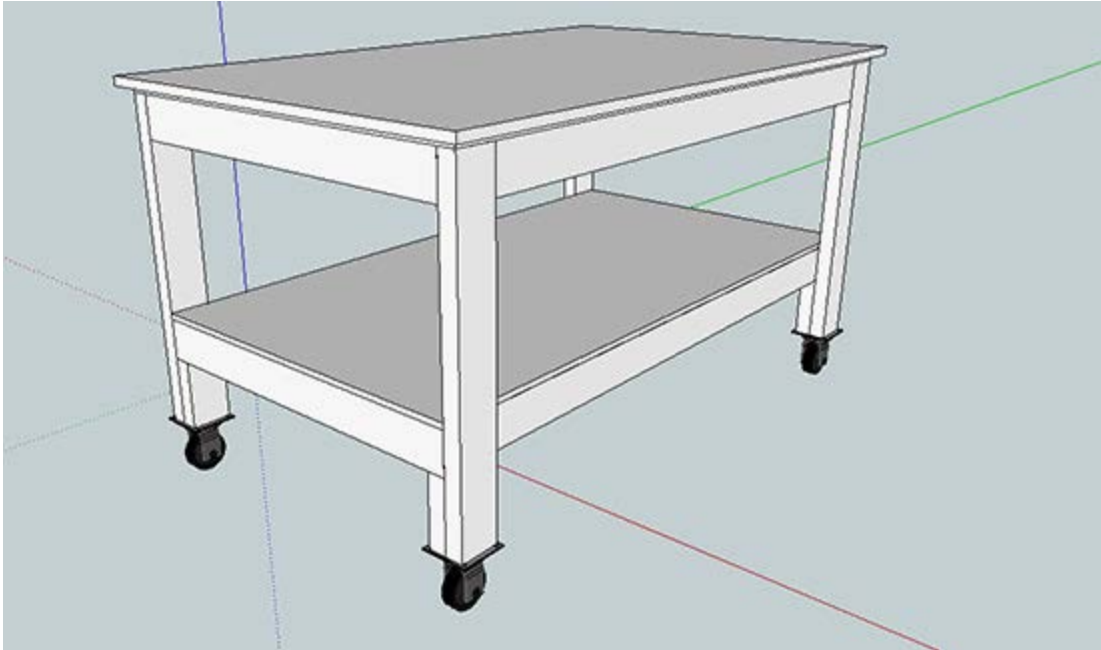


Figure 9: Completed Table with Wheels

12. Finish the build by adding a metal corner bracket at each corner near the top of the table. Use 1" wood or drywall screws.

That's it. If you find any errors or have any suggestions for improvement, drop us a line at John@ourhomefromscratch.com

Thanks!!