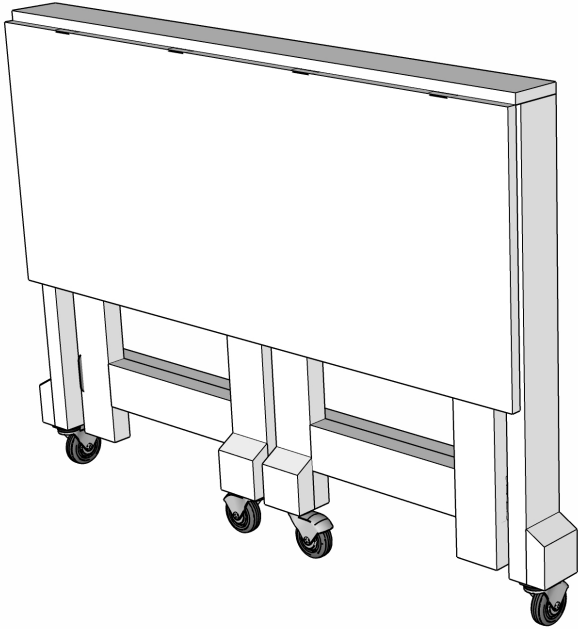
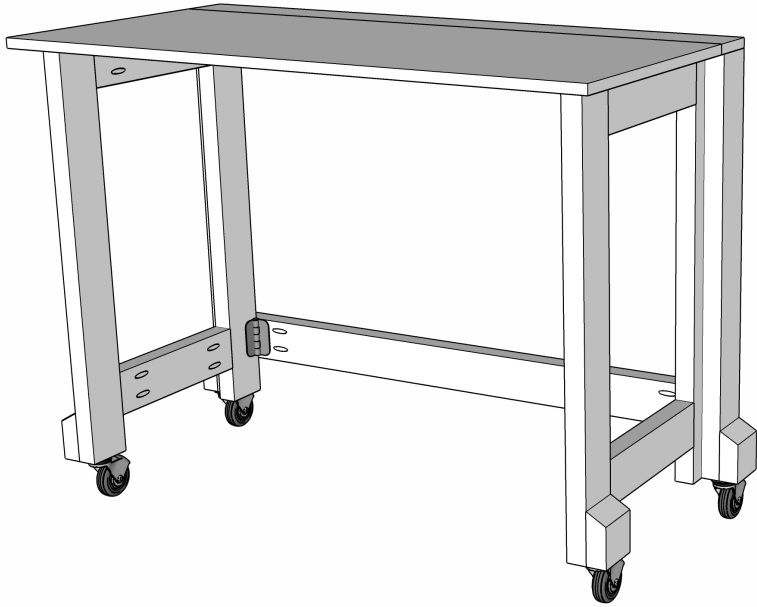


# Folding Mobile Work Bench



## Materials:

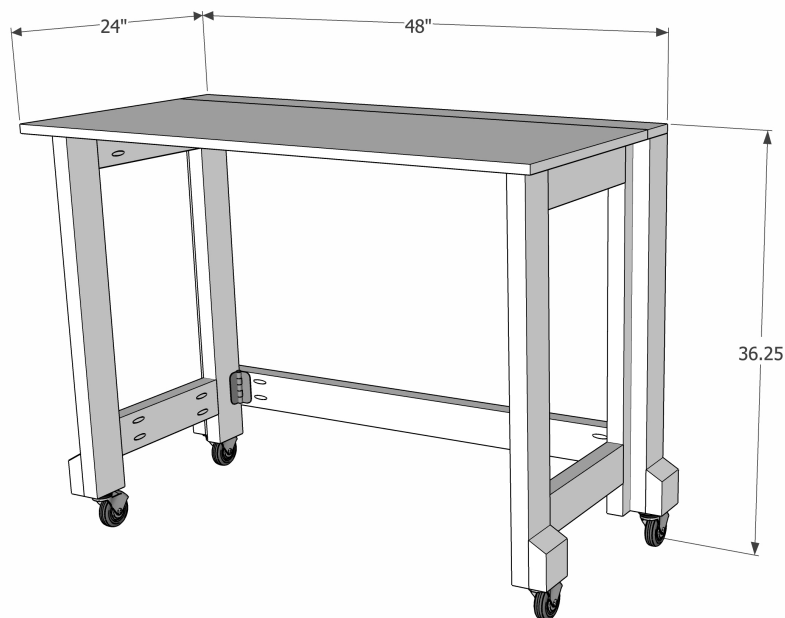
- 4 - 2x4 pine boards @ 8' long
- 1 - 2' x 4' x 3/4" plywood panel
- 4 - 2 1/2" locking casters
- 4 - 2 1/2" hinges
- 4 - 3" hinges
- 2 1/2" pocket screws (24 needed)
- 2 1/2" wood screws (8 needed)
- 1 1/2" wood screws (8 needed)
- 2 barrel bolt latches

## Tools Needed:

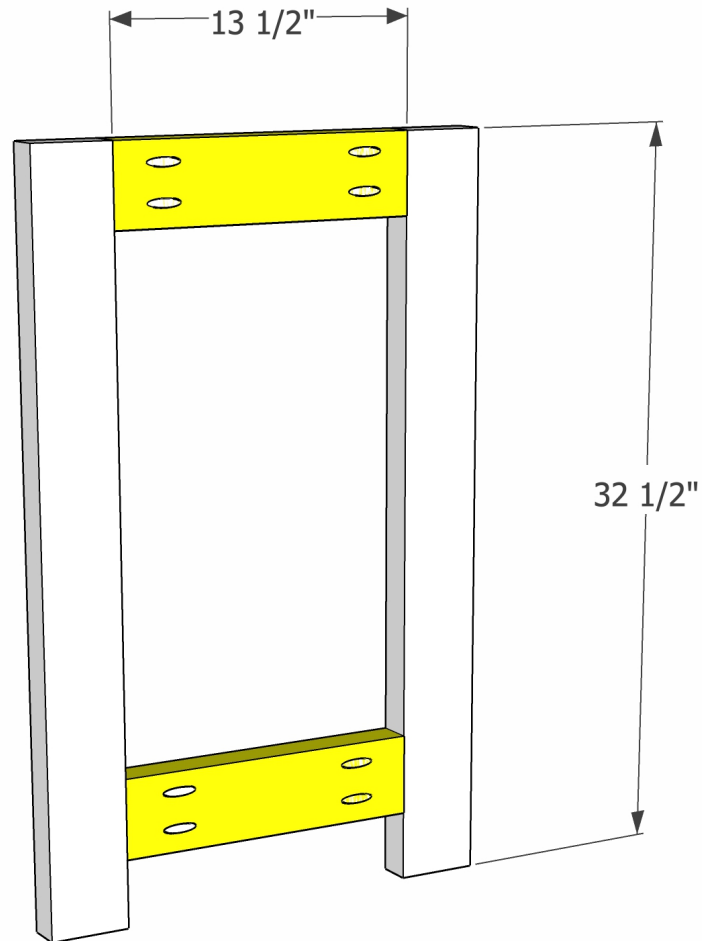
- Miter saw
- Adaptive Cutting System (or Rip-Cut and circular saw)
- Kreg Pocket Hole Jig (720 Pro used)
- Orbital Sander
- Impact Driver
- Drill

## Cut List:

- 6 - 2x4 @ 32 1/2" (legs)
- 4 - 2x4 @ 13 1/2" (stretchers on folding legs)
- 2 - 2x4 @ 45" (top and bottom aprons on back of bench)
- 4 - 2x4 @ 4" with 30 degree cut on one end
- Cut 4" off of 2' x 4' plywood panel



## Step 1 - Build The Folding Panels

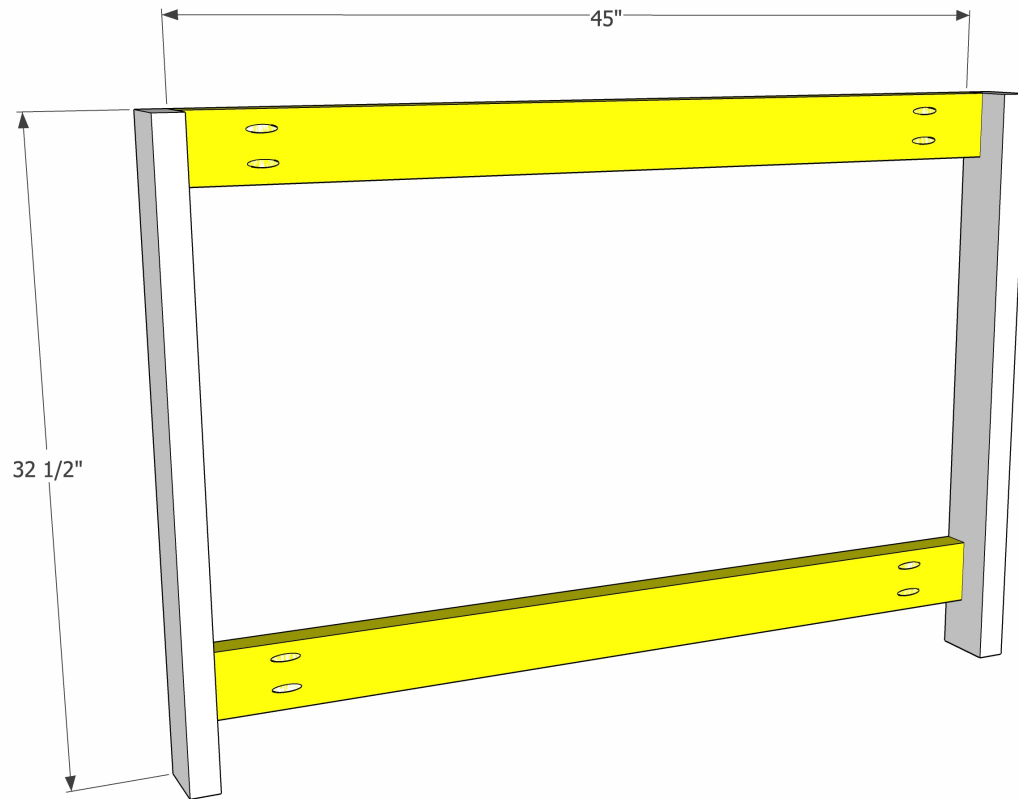


Drill 1 1/2" pocket holes into the 13 1/2" pieces. Attach the top board flush with the tops of the legs and the bottom board 3" up from the bottom of the legs.

Attach in place with wood glue and 2 1/2" pocket screws.

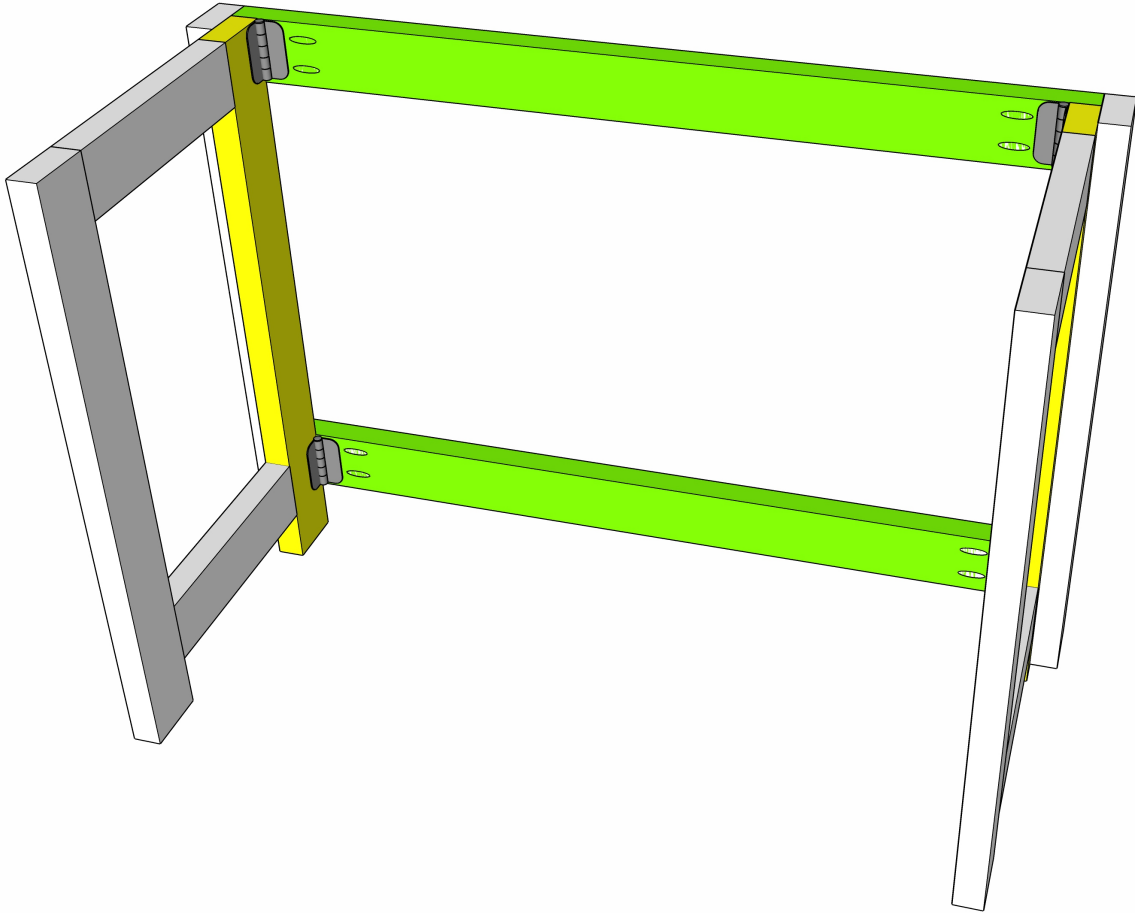
Build 2 panels.

## Step 2 - Build the back of the work bench



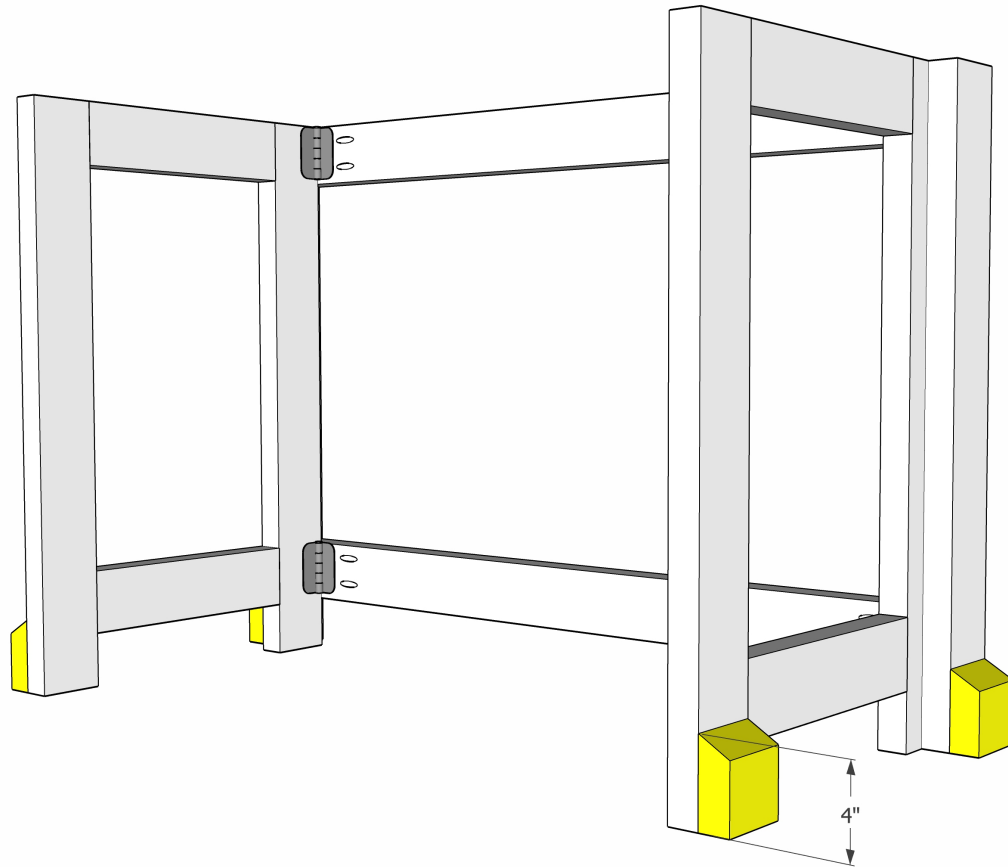
Drill 1 1/2" pocket holes into each end of the 45" long boards. Attach the top board flush with the top of the legs using wood glue and 2 1/2" pocket screws. Attach the lower board 3" up from the bottom of the legs, using wood glue and 2 1/2" pocket screws.

### Step 3 - Attach the folding panels with hinges



Set the panels flush against the inside edges of the back legs. Attach the 3" hinges to the top and bottom joints on each side.

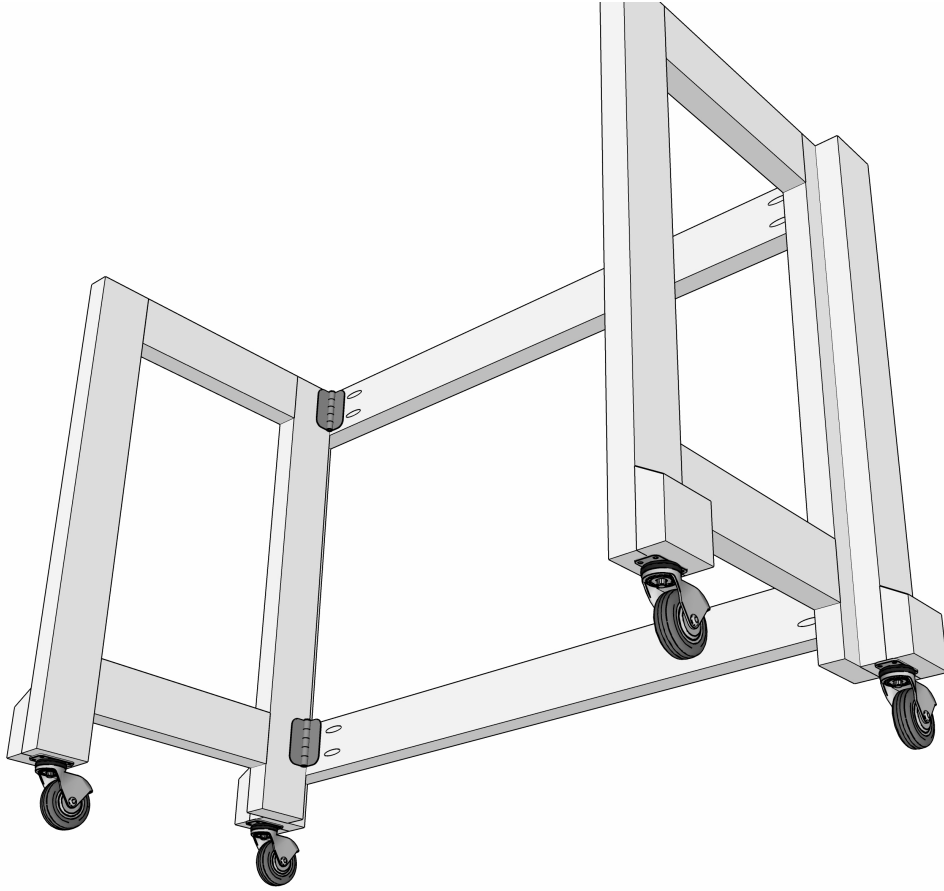
## Step 4 - Attach blocks to legs



Attach the 4" blocks to the back legs and also the front edges of the folding panels. This will provide support for the casters.

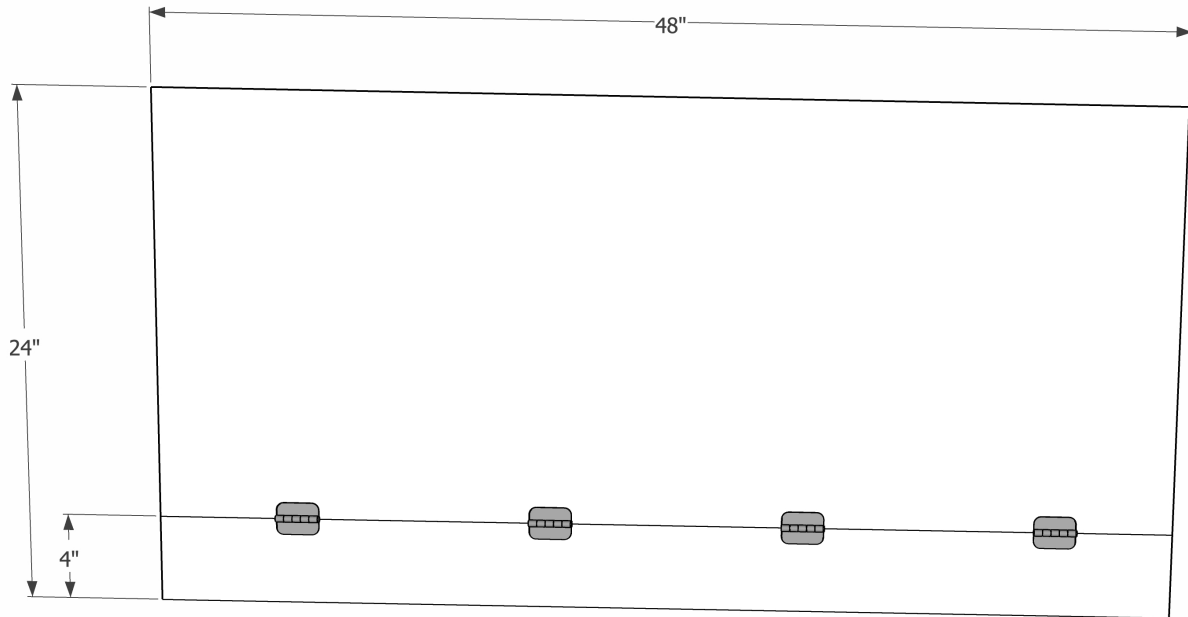
Attach using wood glue and 2 1/2" wood screws (2 in each block).

## Step 5 - Attach the casters



Attach the 2 1/2" locking casters to the back stationary legs of the bench and the fronts of the folding panels.

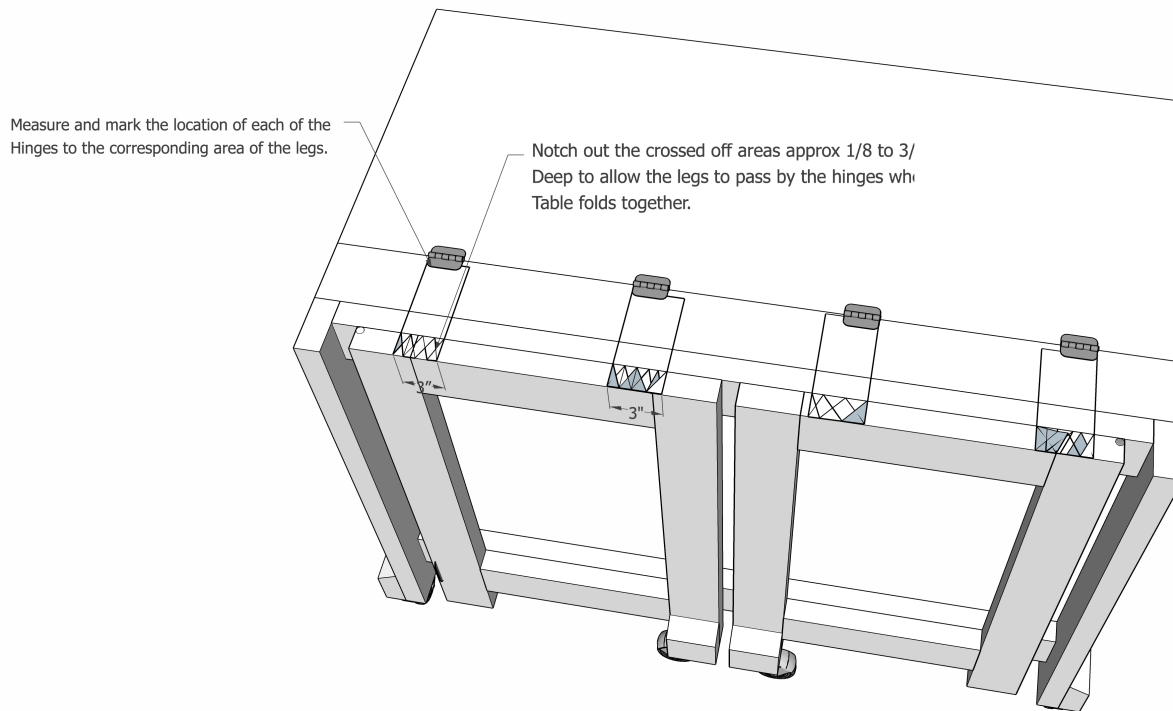
## Step 6 - Building the table top



Cut 4" off of one end of the table top. Evenly space 4 2 1/2" hinges across the seam of the plywood pieces, making sure that the outer hinges will set inside of the legs.

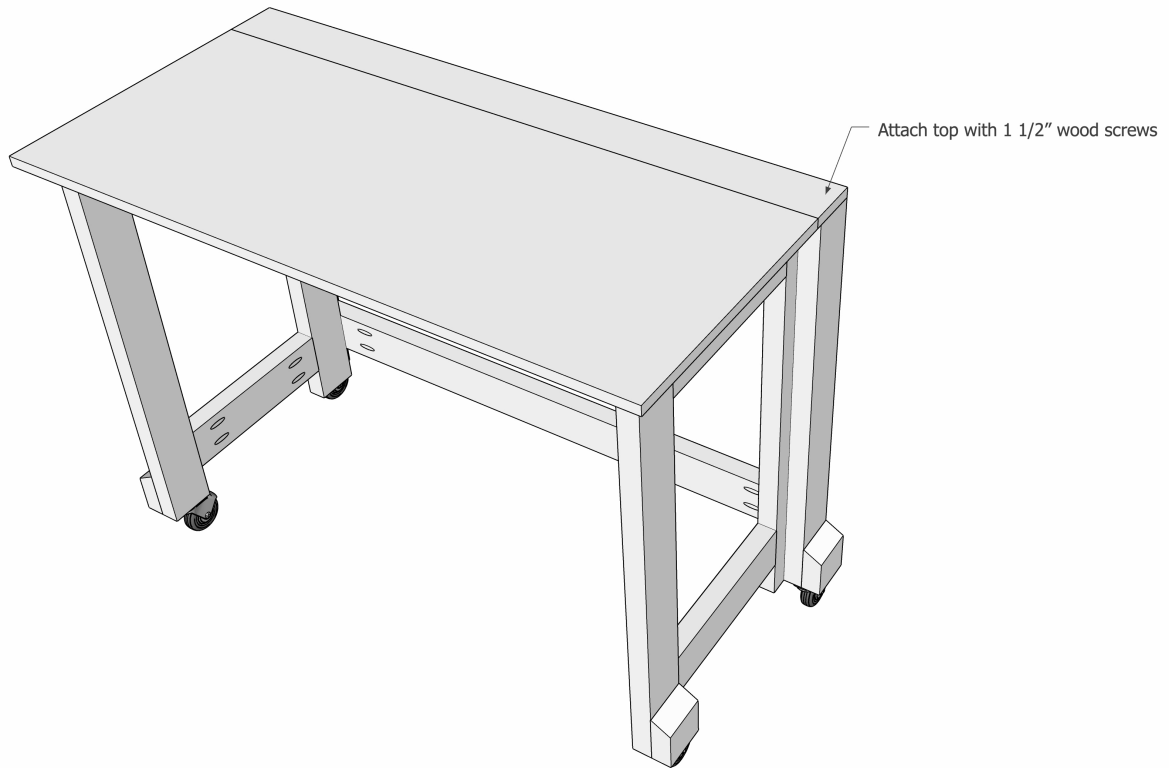


## Step 7 - Notch out folding panels



Following the diagram, mark the location of the hinges to the corresponding area on the folding panels. Add an additional 1/2" to the marks to allow for the swing of the panels. Notch the areas out using a router or chisel and mallet, approx 3/16" deep.

## Step 8 - Attach the table top



Attach the 4" section of the table top to the back legs and apron using the 8 - 1 1/2" wood screws.

## Step 9 - Attach the barrel bolt latches to lock the legs



Install barrel bolt latches on the front legs (latches only, not the catch). The latches should be installed approximately 1/4" down from the top of the legs. Set the bolt against the top of the plywood and trace around it with a pencil. Move the leg out of the way and drill a 5/16" hole where the mark was traced. The bolt will fit into the hole and then turn and lock in place to secure the leg. Repeat this step on the other side of the table.