DIY DOUBLE CHAIR BENCH PLANS

Thanks for downloading the DIY PETE Double Chair Bench Plans. This is a great project that is easy to create and a lot of fun. The complete Youtube video and project tutorial photos to go along with these plans can be found at http://www.diypete.com/how-to-build-a-double-chair-bench-with-table-free-plans - I invite you to make changes to the plans as you find necessary to best fit your needs. Good luck with the project and have fun building it! Please post project photos on the Facebook page at www.facebook.com/DIYPROJECTSWITHPETE - Cheers – DIY PETE

Tools Needed

Please note that many of the links in these plans are affiliate links, which means I'll get a small commission if you purchase any of the tools using them. This is what helps support the website so I can continue spending more time to create free plans. Anything purchased on Amazon using the following link: http://www.DIYPETE.com/AMAZON will help support the site. So thank you for your support!

Miter Saw – I'd recommend a 12 inch miter saw.
Orbital Sander – Ryobi makes a nice one.
Drill – I use Ryobi drills.
JigSaw
Tape Measure, Ruler, Pencil

Optional:
Clamps – Clamps are helpful for any project. I love to use JackClamps.
Circular Saw
You can use pocket holes to connect a few of the boards if you prefer.
Kreg Jig Right Angle Clamp
Speed Square
Kreg Jig – The K4 is what I have.

Supplies Needed

QTY: 1 Box - 2 inch Deck Screws
QTY: 1 Box – 2 ½ inch Deck Screws
QTY: 1 Box – 3 Inch Deck Screws
1 Tube of Wood Putty to fill screw holes
120/220 Grit Sandpaper
1 Quart Spar Urethane (Minwax – Green colored can)
Paint Brush
Wood Glue – I'd recommend Gorilla brand wood glue.
Drill Bits – For pre-drilling pilot holes
Rubber gloves
Safety Glasses
Hearing Protection
Dust Mask or Respirator

Wood

QTY: 1 – 2x6 by 8 Foot Long Board
QTY: 2 – 1x6 by 8 Foot Long Board
QTY: 5 – 2x4 by 8 Foot Long Board
QTY: 6 – 1x4 by 8 Foot Long Board

Cut List

*Please note all 1x4 boards are ¾ inch thick and 3 ½ inches wide.
All 2x4 boards are 1 ½ inches thick and 3 ½ inches wide. All 2x6 boards are 1 ½ inches thick and 5 ½ inches wide.

QTY 1 - 2×6 61″ long – Front Support
QTY 1 - 2×4 58″ long – Rear Support
QTY 2 - 2×4 23 1/2″ long – Front Legs (Will Notch out)
Qty 2 - 2×4 22 9/16″ long – Arm rest supports / side frame
QTY 2 - 2×4 24 5/16″ long – Rear Legs (inside edge to inside edge (24 5/16″ long Outside edge to Outside edge) 15 degree angle on each side (cut ends parallel to each other)
QTY 5 - 1×6 24″ long – Arm Rests and Table Top – Will Round Corners for outside pieces
QTY 4 - 2×4 19 3/4″ long – from square edge to outside point – Cross Supports 15 degree angle on 1 side
QTY 4 - 2×4 24″ long – from square edge to outside point – Backrest Supports – 15 degree angle on bottom only – Top is cut at a 90 degree angle and then rounded.

Table supports:
QTY 2 - 1×4 14″ long (Front Table vertical supports)
QTY 2 - 1×4 15 1/2″ long (Rear Table vertical supports)
QTY 3 - 2×4 17″ long (horizontal table supports – 1 for front and 2 on back (doubled up))

Chair Slats
QTY 10 - 1×4 20 1/2″ long (Slats for chair seat)
QTY 10 - 1×4 19″ long (Slats for backrest)

Approximate Total Cost: $125 cedar

*Approximate Total Cost (Not including tools and supplies you might have like rubber gloves, paint brush, stain, paint, screws, etc.)

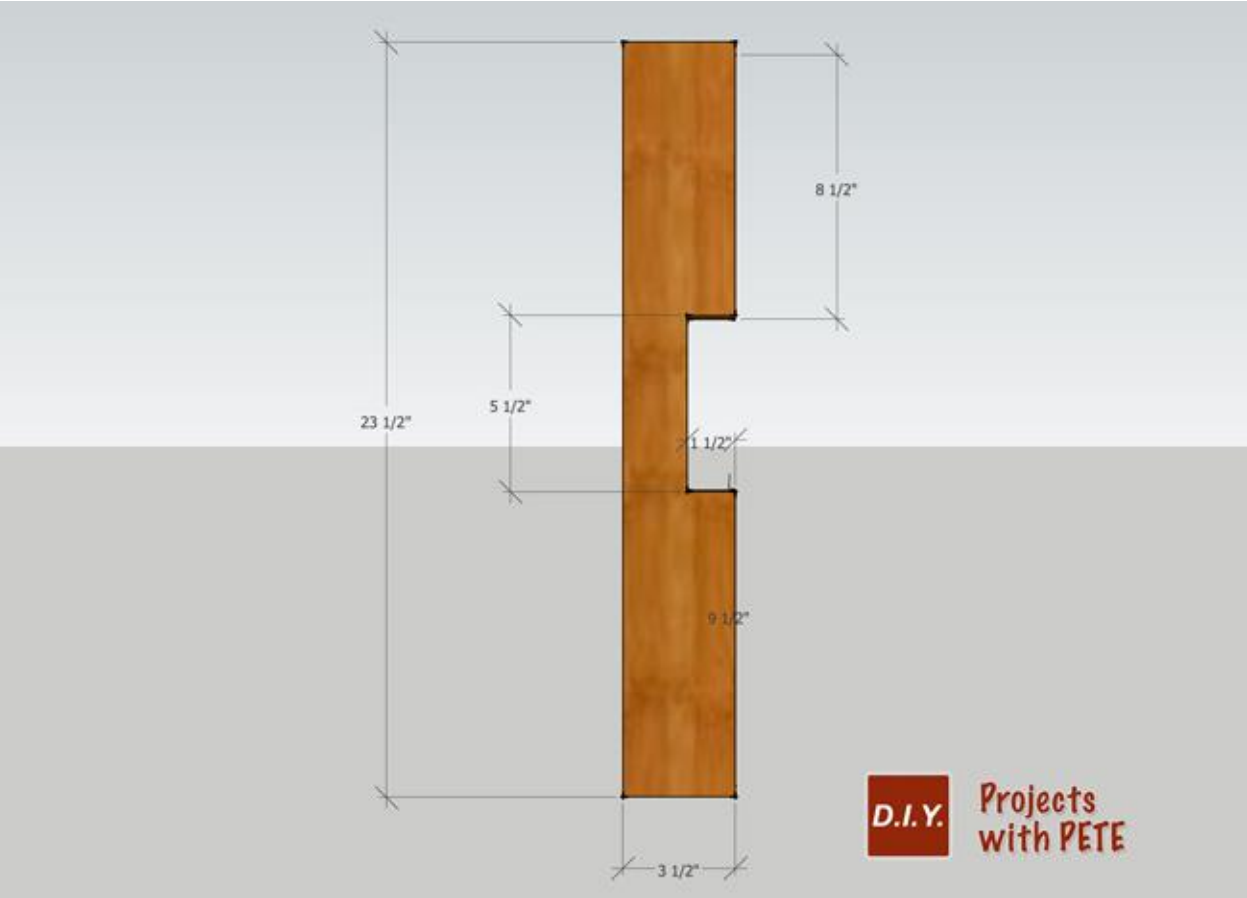
Step 1 – Gather Supplies

Pick up your supplies. I used western cedar for this project because it resists rot and does well outside. You could use pine to bring the lumber cost down. If using pine you'll want to either paint the wood or make sure to re-seal it yearly.

Step 2 – Make Your Cuts

Cut each piece on your miter saw. For all angles in this project, set the saw to 15 degrees. If you don't have a miter saw you can find one here.

Cut the Notch and Rounded Corners

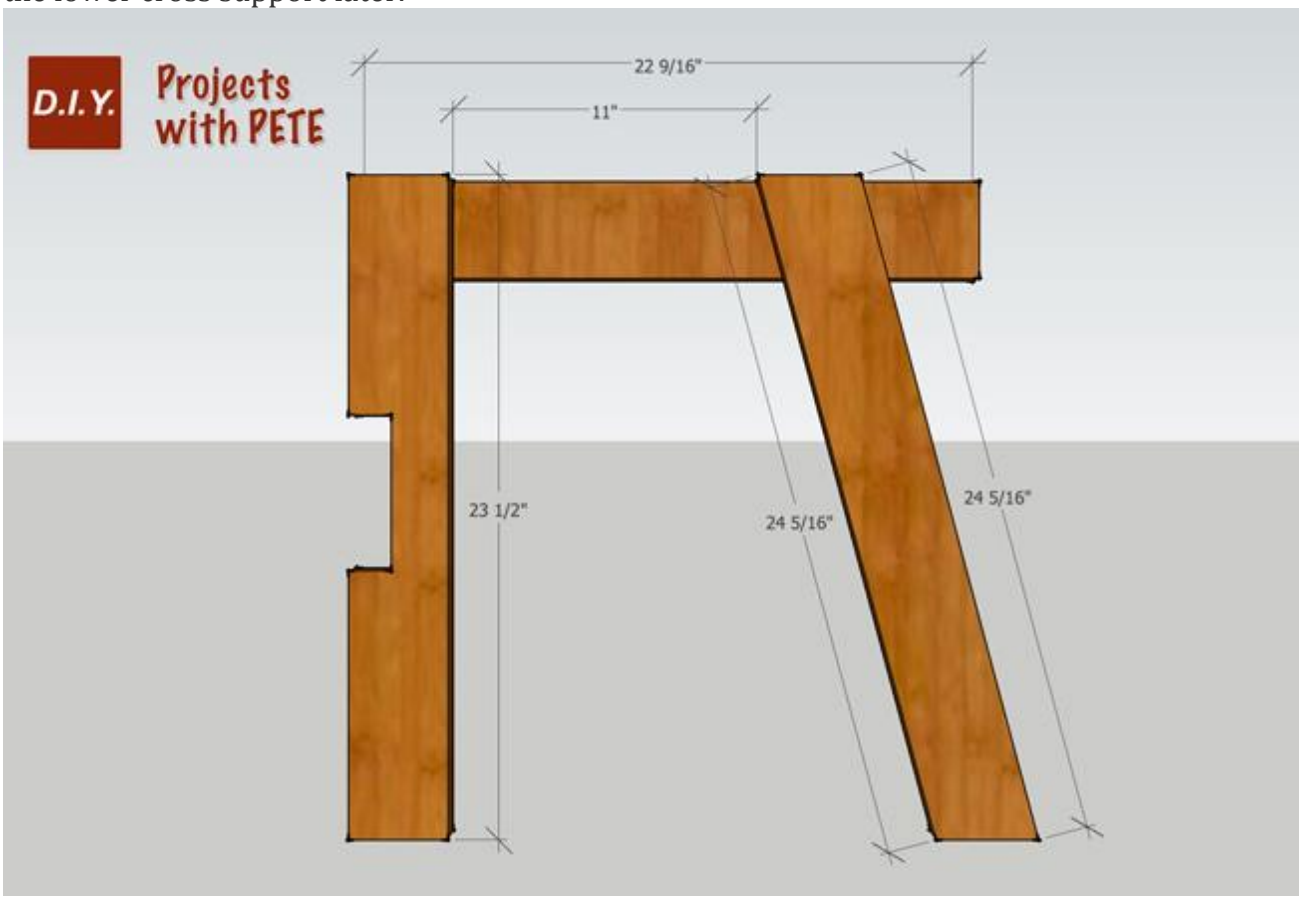


Use a jigsaw to cut out the notch on the two front legs. The 2×6 piece will eventually rest in the notch. Measure 9 1/2 inches up from the bottom of the 2×4 front leg and mark. Measure 1 1/2″ back (depth). Then measure from your 9 ½ inch mark up 5.5″ and make one more mark. Connect the lines and cut out your notch on both pieces.

Next, grab a role of tape to make your rounded corners for the arms and back supports. Do a rounded corner for the two outside armrests, and for both outside pieces of the table top. Create rounded corners for the top of the backrest supports as well. Cut with a jigsaw and use an orbital sander to smooth the edges.

Step 3 – Assemble Both Sides

As shown in the video, attach the front and rear leg together on the top with the 22 9/16″ long arm support 2×4. Measure 11″ back from the rear of the front leg and put a mark. Then line up the rear leg so that the 15-degree angle sits flush with the arm support. Attach with 2.5″ Deck Screws. Only attach the two legs to the arm support in this step. We'll get to the lower cross support later.



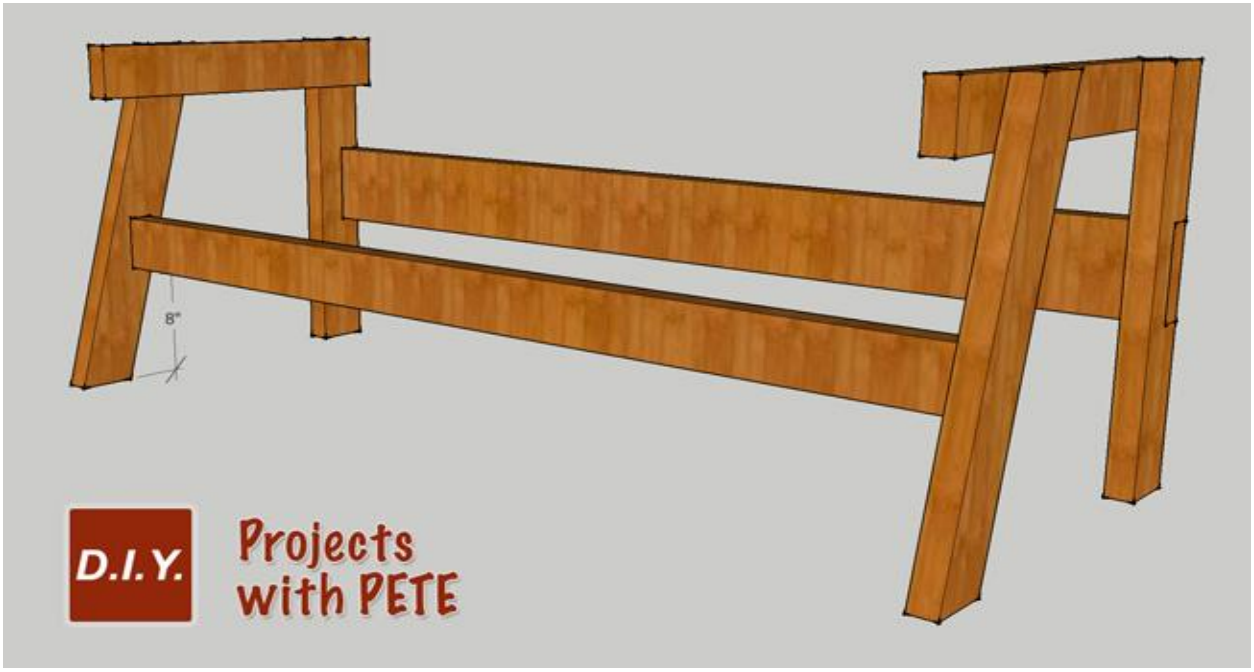
View from inside

Step 4 – Attach sides with 2×6

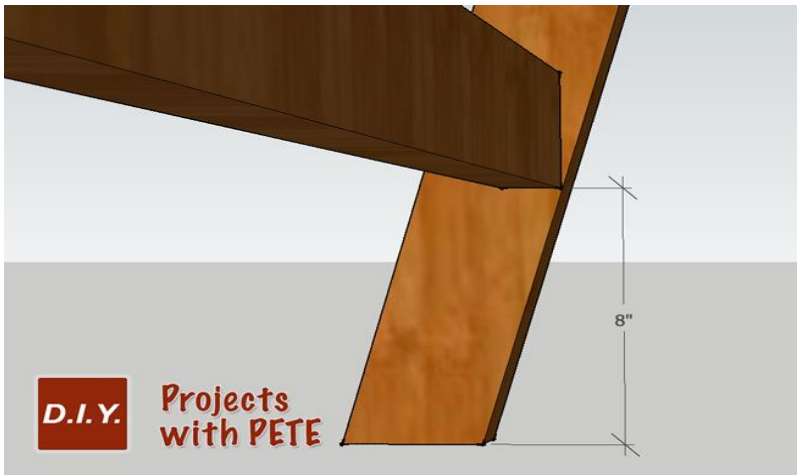
To attach the sides, drill 3 holes from the back of the front legs into the 2×6. Make sure to drill pilot holes.

Step 5 – Attach rear 2×4

Measure 8 inches up from the bottom of the rear leg. Please see the video if you have questions. This is one of the more tricky steps to try and explain. Use three 3″ Deck Screws to attach. Fasten to both sides. (Drill from the outside leg into the 2×4 rear support.)

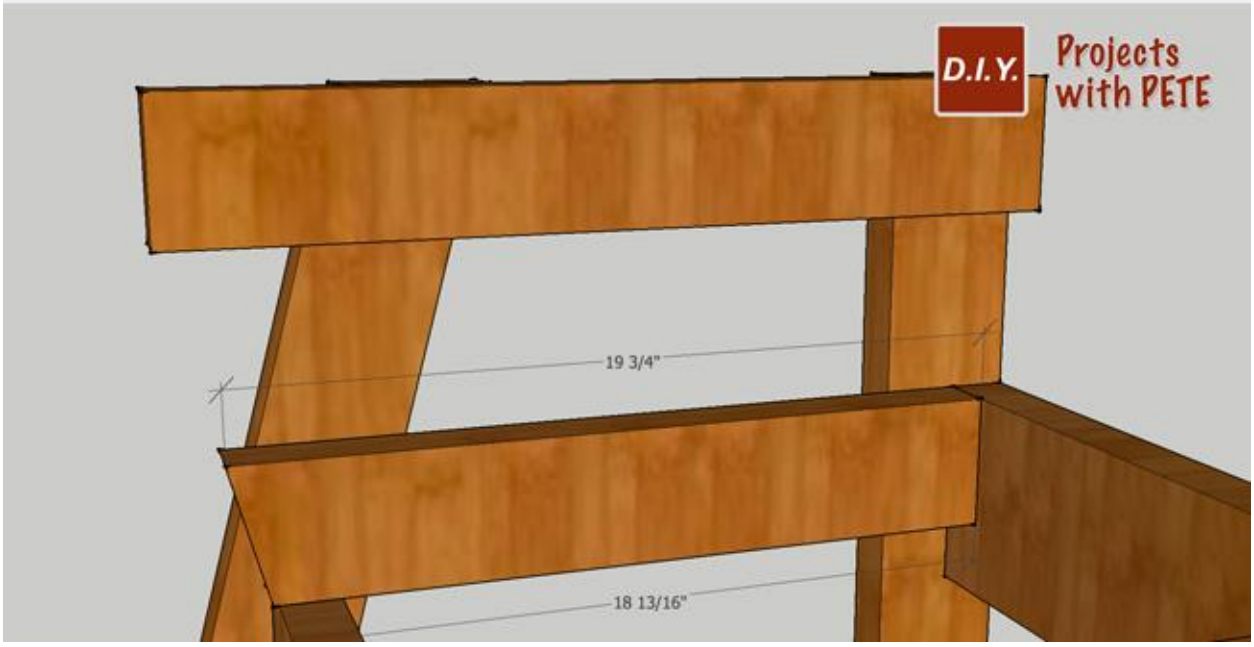


Below is an up-close photo showing the rear 2x4 support.

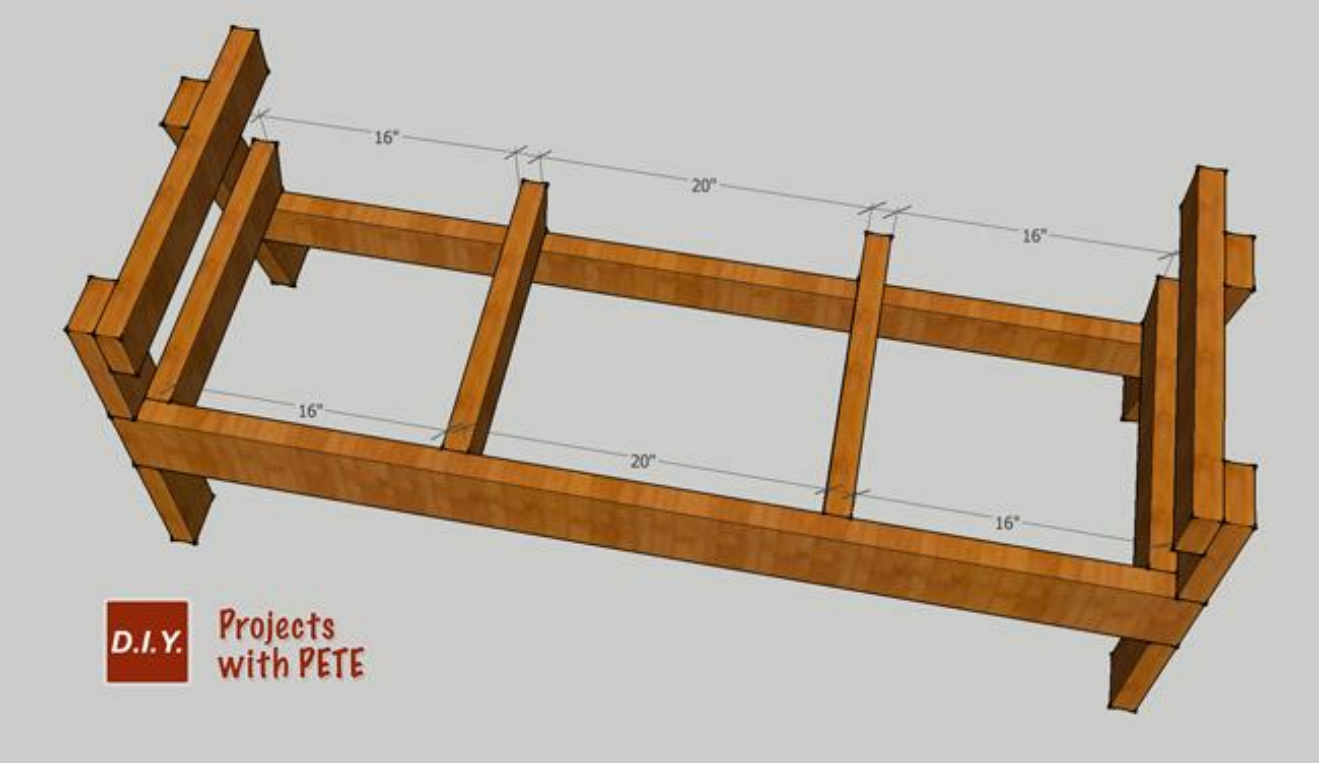


Step 6 – Attach Cross Supports

You will attach the cross supports on each end to the chair sides and rear support using 2 or 3 2 ½ inch screws into each leg. You'll notice the back of the cross support (with the 15 degree angle) sits flush on the rear support and the inside angle extends slightly past the rear support.



For the middle 2 cross supports you can drive 2 screws in from the front side. (Through the 2×6 and into the cross support.) To attach the rear side of the support drill a couple pilot holes through the side of the cross support at an angle down into the rear support. Then use 3 inch wood screws to attach the support. The screws will keep the cross supports in place and later steps will solidify the joint.

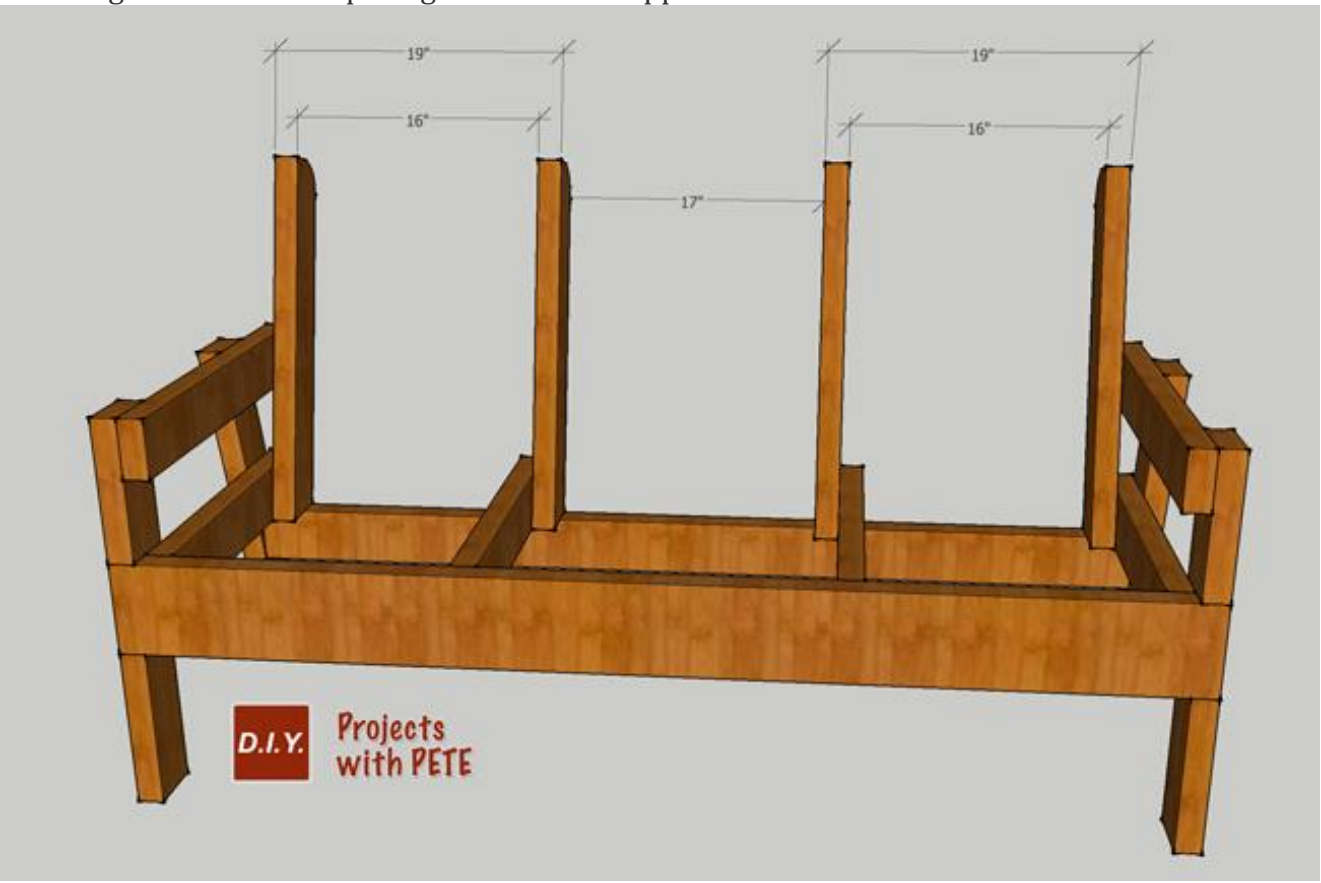


Step 7 – Attach Back Supports

Fasten to the sides with 2.5″ screws. Flush up the bottom with the 15 degree angle.

The upper support arm bottom corner will be flush with the back-side of the backrest support.

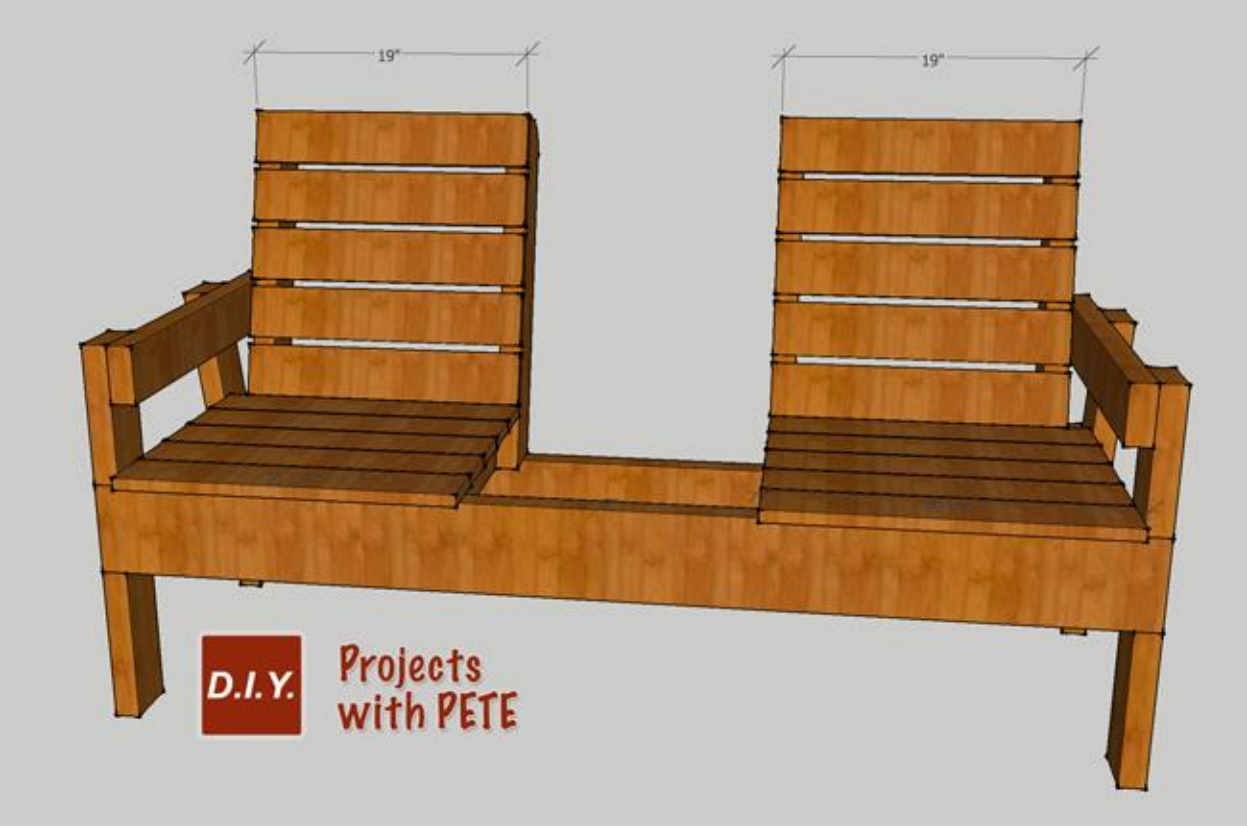
This diagram shows the spacing for the back supports.



Step 8 – Attach Chair and Backrest 1×4 Wooden Slats

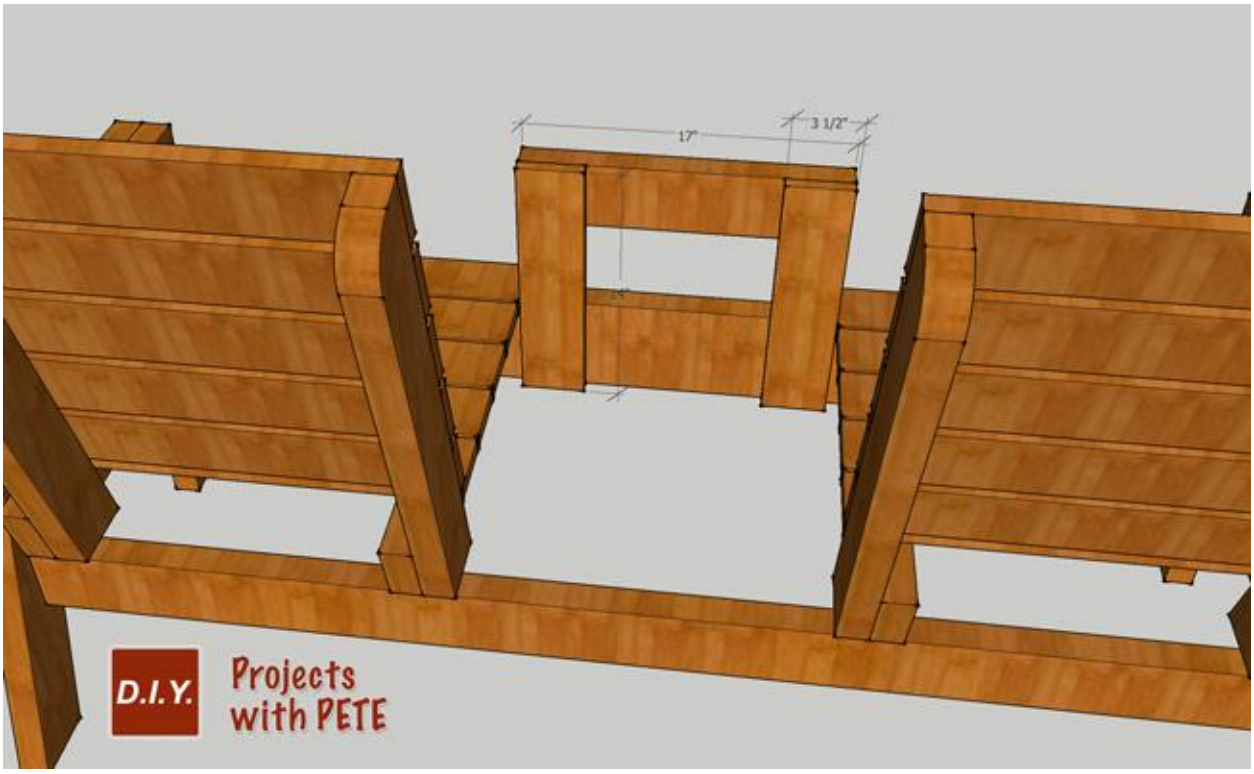
Attach the front chair slat so that it hangs over the front 2×6 by 3/4″. Then attach the rear slat so it touches the two backrest supports. Attach the remaining 3 slats and space them evenly apart. (About 1/4 or so). These boards are 20.5″ wide.

Next, attach the backrest slats. These boards are 19″ wide. Attach the top board first to help square up the backrest supports. Then attach the bottom slat. Finally, attach the remaining boards and space evenly.

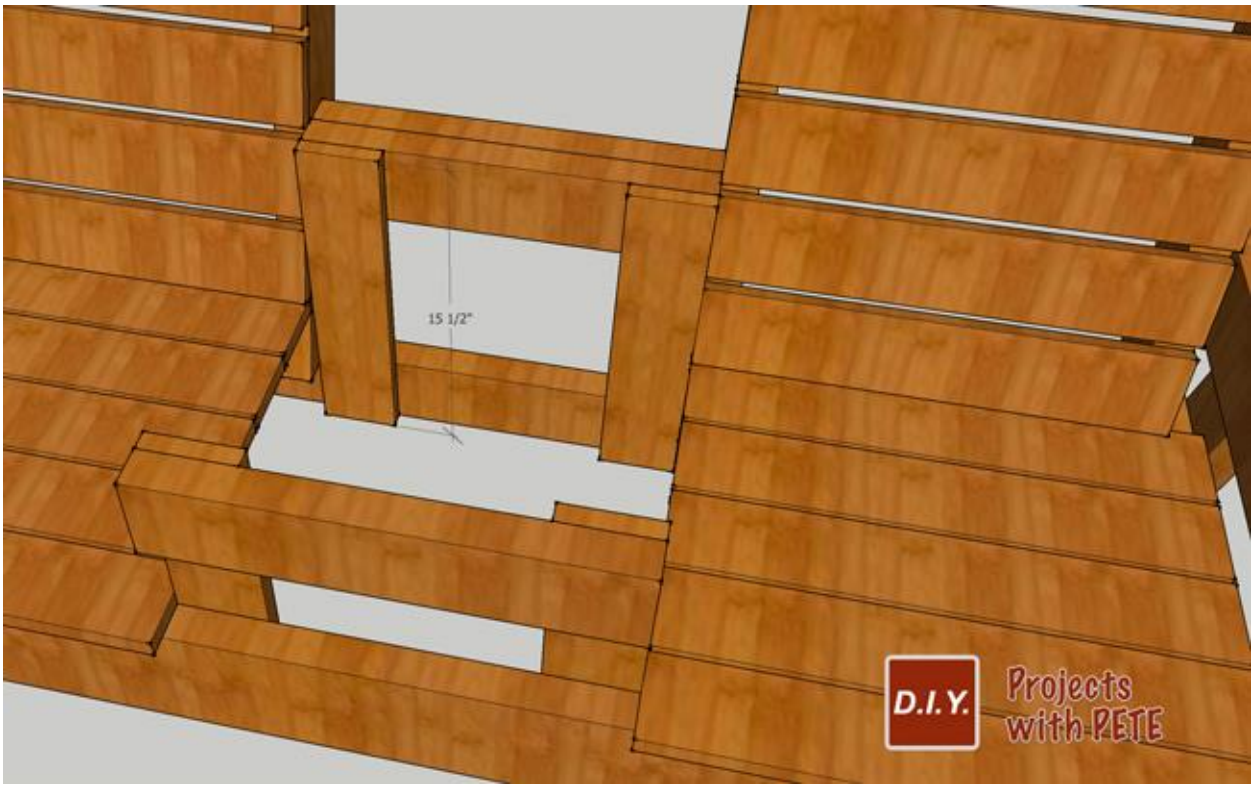


Step 9 – Attach Center Table Supports

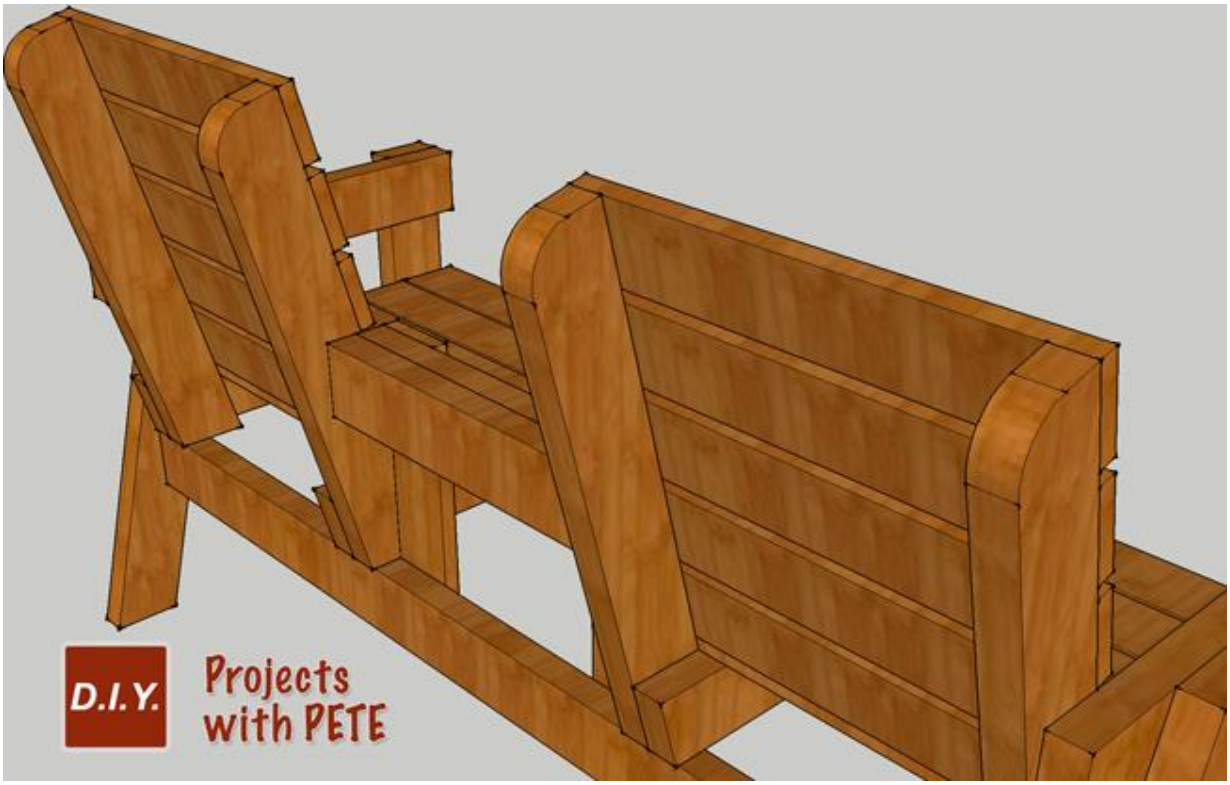
Attach the two 14″ 1×4 slats to the front 2×6 using 2″ deck screws. Then connect the two on top with a 17″ long 2×4.



Attach the 15 1/2″ 1×4 slats to for the back table support. Flush the bottom of the slat up with the bottom of the 2×4 rear support. Then connect the tops of the slats with two 17″ 2×4's. The second 2×4 is used to connect the chairs to the table for extra support. Connect the 17 inch 2x4's to each other using 2 ½ inch screws.



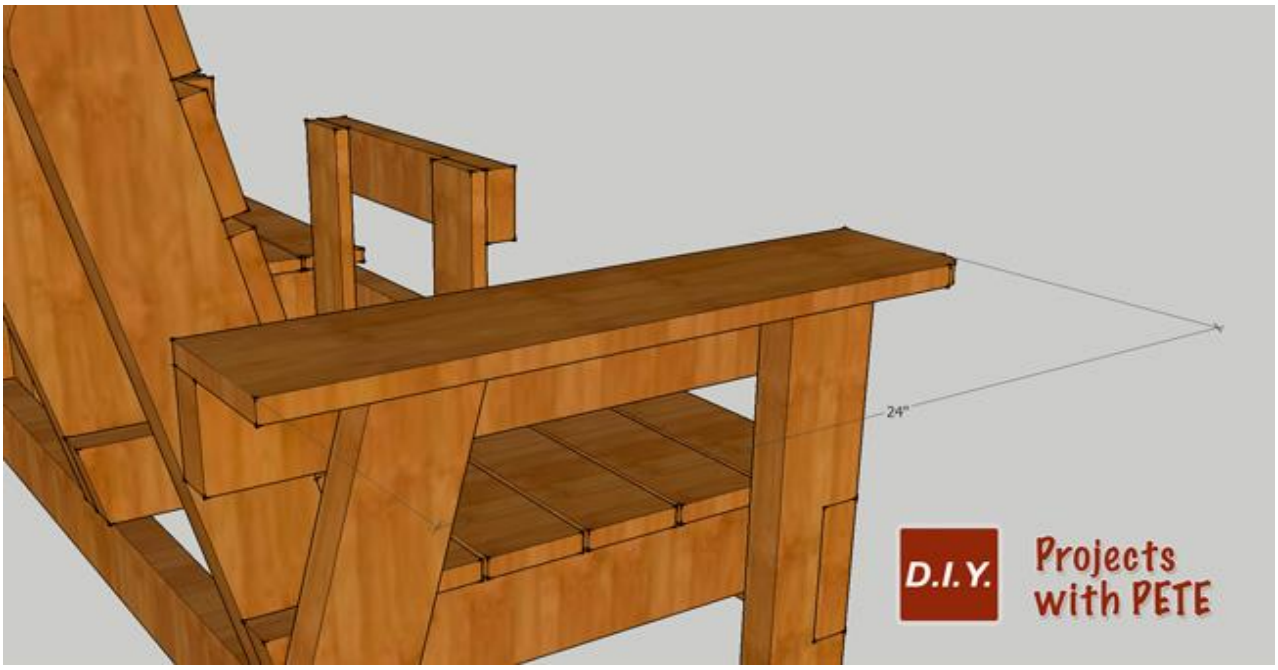
Step 10 – Attach each Chair to the Table



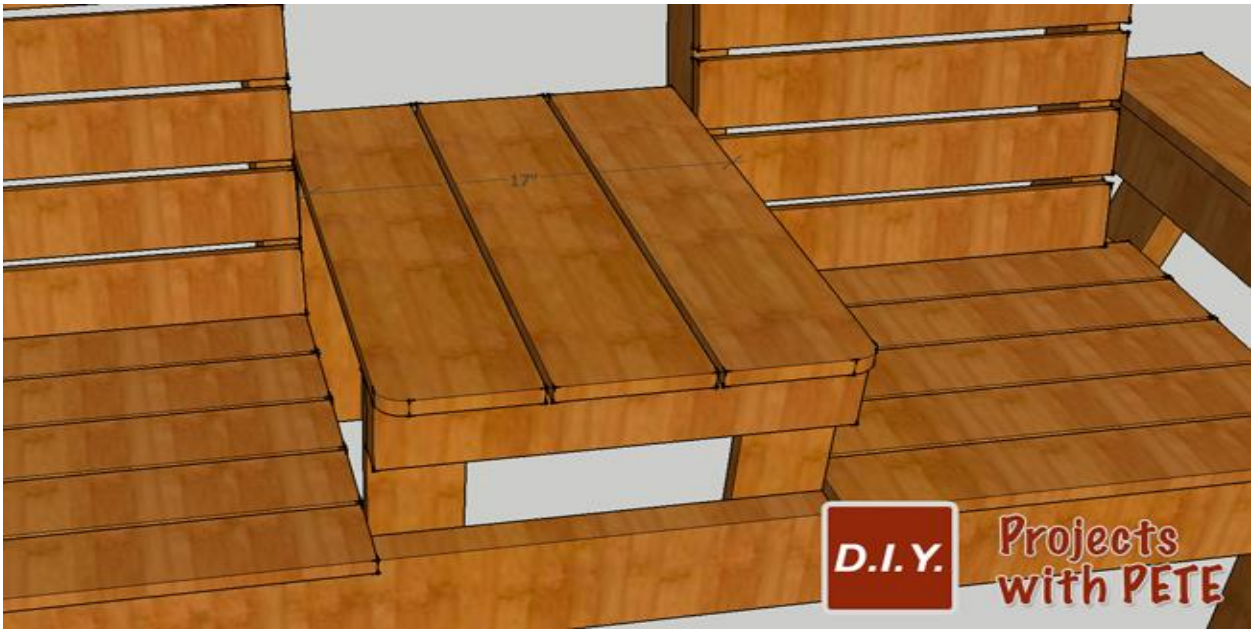
Attach the two middle backrest supports to the 17″ 2×4 table support. This will strengthen the entire piece of furniture. Use two 3″ deck screws on each side.

Step 11 - Attach Arms and Table Top

Attach the arm rest 1x6 boards. The edges will line up flush with the side and back of the 2x4 arm support.



For the table, attach the 3 1×6 boards with 2″ deck screws. Space evenly apart.



Step 12 – Fill Screw Holes

Fill all the screw holes with wood putty if you'd like. The screws need to be countersunk in order to fill them. Spread putty into the screw hole with your finger. Then let dry. You will sand off the excess later. Once the putty is dry (a few hours), sand around each hole to clean off excess putty.

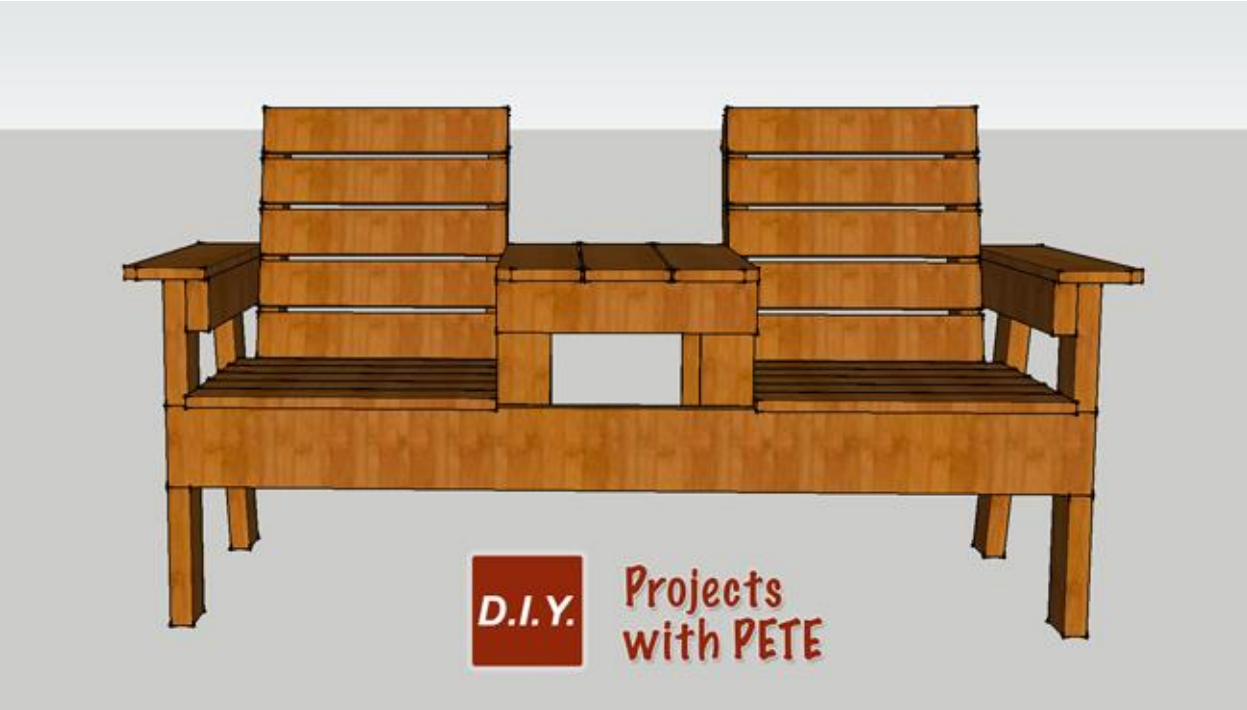
Step 13 – Prep for finishing

Use a broom or rag to clean off sawdust prior to finishing. Here is a photo of what it will look like prior to the urethane finish.

Step 14 – Apply Finish

I like to use Minwax Spar Urethane. It enhances the natural beauty of cedar and protects the wood against the outdoor elements.

Apply 2 coats of Urethane with a brush. Let the second coat dry completely (6-12 hours), then lightly sand the armrests, table, and areas you come in contact with when sitting (chair slats). This light sanding with 220 grit paper will remove any dust particles that settled in the first coat. Next, take a clean cloth and wipe a thin coat of poly on all the areas you sanded. This will give you a nice smooth finish.



Enjoy!

Thanks so much for checking out the Double Chair Bench plans and I'd love to hear how your project goes! Please post photos on Facebook at www.facebook.com/diyprojectswithpete and subscribe to my Youtube channel at www.youtube.com/diyprojectswithpete.

Cheers from Montana,

* Please refer to the post at http://www.diypete.com/DoubleChairBench and check out the video tutorial for more information, instructions, and tips.