

# DECK BENCH

DIFFICULTY: **MEDIUM**



5 VOLUNTEERS



4 HOURS

## MATERIALS

### PREP

(1) 4x4x8ft board - if bench is set in concrete, use (1) 4x4x12ft board instead

### BUILD

(4) 4x4x13" pieces - if bench is set in concrete, use 4x4x29" pieces instead

(2) 4x4x8" piece

(2) 2x4x48" pieces

(4) 2x4x15" pieces

(4) 2x6x15" pieces

(8) 2x2x45" pieces

1.5lbs 2.5" deck screws

2lbs 3" deck screws

Sanpaper

## TOOLS

### PREP

Miter saw

Tape measure

Pencil

Carpenter's square

Safety glasses

### BUILD

Tape measure

Pencil

Hammer

Drill

Screwdriver bit

1/8" drill bit

Safety glasses

## PREP LIST

1. Sort materials into piles by like items to ensure you have materials needed to complete project.
2. Take the 4x4x8ft board. Cut into (4) 4x4x13" pieces and (2) 4x4x8" pieces - if you will be setting the bench in concrete, take the 4x4x12ft board and cut into (4)4x4x29" pieces and (2) 4x4x8" pieces.
3. Take (1) 2x4x8ft board. Cut into (2) 2x4x48" pieces.
4. Take the second 2x4x8ft board. Cut into (4) 2x4x15" pieces.
5. Take the 2x6x8ft board. Cut into (4) 2x6x15" pieces.
6. Take all (4) 2x2x8ft pieces. Cut each one into (2) 2x2x45" pieces, for a total of (8) 2x2x45" pieces.
7. Angled Cuts: Take all (4) 2x6x15" pieces. Measure 1.5" down from the top of each piece and 1.5" across from the bottom. Draw a line between the two marks and cut along the line. This should be a 20° angle. Repeat on the other side to create a trapezoid. Repeat for the rest of the 2x6x15" pieces.

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## BUILD LIST

1. Sort materials into piles by like items to ensure you have materials needed to complete project. 
2. Make the frames by positioning (2) 2x4x15" end pieces between (2) 2x4x48" pieces to make a rectangle. The 2x4x15" pieces should be inside the 2x4x48" pieces. Position the ends so that the edges are flush. Drill 1/8" pilot holes through the sides and into the ends. Fasten with 3" screws. 
3. You will be building your deck bench upside down. Set the 2x2x45" slats inside the frame and space them out evenly. There should be a gap of approximately 3/8" in between each slat. Drill 1/8" pilot holes through the 2x4x15" pieces into the 2x2x45" pieces at both ends and fasten with a 3" deck screw. Repeat until all the seat slats are in place. 
4. Before attaching the (2) 2x4x15" stretchers, measure 3.5" down and 7" down from the inside corner of each 2x4x48" piece and make a mark. Position the stretchers between the marks. Drill 1/8" pilot holes through the stretchers into each slat and fasten with 2.5" screws. There should be one connection per slat. 
5. Assemble the bench by positioning each leg - (4x4x13" OR 4x4x29") between the braces (2x6x15"). The legs sit atop the stretchers while the braces attach to the outside of the 2x4x15" stretchers. Insert the 4x4x8" block in between the legs and braces for added stability. Attach all with 3" screws. Use two 3" screws at a diagonal to attach the blocks to each leg. Repeat for the other legs. 
6. If you are setting your bench in concrete, use the assembled bench to mark where the legs will go into the ground. Dig 4 holes 6" in diameter and 16" deep. Set the bench into the ground and use a level to ensure the bench is straight while filling holes with concrete. 
7. Sand all surfaces to minimize risk of splinters. 