


SANDBOX

DIFFICULTY: **COMPLEX**

 10-15 VOLUNTEERS

 5-7 HOURS

MATERIALS

PREP

(6) 2x4x8ft boards
(12) 2x6x8ft boards
(12) 2x6x12ft boards

BUILD

(4) 2x6x96" trapezoids
(28) 2x4x6.25" peices
(28) 2x4x12" pieces
(4) 2x6x75.5" pieces
(4) 2x6x126.5" pieces
(4) 2x6x142" pieces
(4) 2x6x91" pieces
(4) 2x6x144" trapezoids
(4) 2x6x132.5" trapezoids
(2) 2x6x96" trapezoids
(2) 2x6x84.5" trapezoids
110 cubic ft of play sand
5lb of 2.5" deck screws

TOOLS

PREP

Miter saw
Carpenter's square
Pencil
Tape measure
Safety glasses

BUILD

Drill
Tape measure
Landscape fabric
Pencil
Carpenter's sqaure
Safety glasses


PREP LIST

1. Sort all the materials into piles by like items to ensure you have materials needed to complete project.
2. Take (4) 2x6x12ft boards. Cut one 142" length from each piece, for a total of (4) 2x6x142" pieces.
3. Take 4 of the remaining 2x6x12ft pieces of lumber. Cut one 126.5" length from each piece for a total of (4) 2x6x126.5" pieces.
4. Take (4) 2x6x8ft boards. Cut one 75.5" length from each piece, for a total of (4) 2x6x75.5" pieces.
5. Take (4) 2x6x8ft boards. Cut one 91" length from each piece, for a total of (4) 2x6x91" pieces.
6. Take (4) 2x4x8ft boards. Cut (8) 12" pieces from each, for a total of (32) 2x4x12"pieces. You will only need 28 of them.
7. Take (2) 2x4x8ft pieces of lumber. Cut (14) 6.25" lengths from each piece for a total of (28) 2x4x6.25" pieces.
8. Take two of the remaining 2x6x12ft boards. Cut each down to 132.5" pieces, for a total of (2) 2x6x132.5" pieces.
9. Take the last two 2x6x8ft boards. Cut each down to 84.5" lengths, for a total of (2) 2x6x84.5"
10. Take the last (2) 2x6x12ft and (2) 2x6x132.5" boards. Using the miter saw, cut a 45° angle off each end to create two trapezoids.
11. Repeat the step above to the (2) 2x6x8ft and (2) 2x6x84.5" boards.

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TOOLS

PREP








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Carpenter's square
Pencil
Tape measure
Safety glasses

BUILD

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Tape measure
Landscape fabric
Pencil
Carpenter's sqaure
Safety glasses

kaboom.org

BUILD LIST

1. Sort all materials into piles by like items to ensure you have all necessary materials. 
2. Build legs: use (2) 2x4x6.25" pieces to connect (2) 2x4x12" pieces. Use two 2.5" screws at each joint. Make sure all sides are flush and sqaure. Build 14 leg assemblies. 
3. Build inside border: use 2.5" screws to attach the 2x6x126.5" and 2x6x75.5" pieces. Make sure to run the 126.5" pieces LONG, past the 75.5" pieces to construct a rectangle. Build two sqaures of this size per sandbox and stack them on top of each other. 
4. Build outside border: use 2.5" screws to attach the 2x6x142" and 2x6x91" pieces. Make sure to run the 142" piece LONG, past the 91". Build two squares at this size around the inside frame you've already built. 
5. Fit the 28 leg assemblies between the inside and outside border. Space and flush them with the inside corner. Make sure to attach the outside border 9.25" clearance from the 2x4x6.25" brace or seats won't fit! Use 2.5" screws to attach the borders to the 2x4x12" legs. Set the top of the border flush with the top of the legs and leave a .25" gap, which should leave a .75" gap to the ground at the bottom. 
6. Measure diagonals of sandbox to make sure it's square before continuing. Wiggle the corners of the sandbox if one diagonal is longer than the other until outside-corner-to-outside-corner are within .5" of each other. 
7. Place the 2x6 seat pieces on top of box. Line up the 45° corners, leave a .25" gap between outer and inner pieces. Make sure pieces overhang the box by 1". Attach seats to box with 2.5" screws into each 2x4x6.25" brace and every 12" along the borders. 
8. Line inside of box with landscape fabric and fill sandbox with sand 2-3" below top level. 