


OUTDOOR CLASSROOM

DIFFICULTY: **COMPLEX**

 10 VOLUNTEERS

 8 HOURS

MATERIALS

PREP

(6) 2x6x8ft boards

(6) 2x6x10ft boards

(4) 2x4x8ft boards

(7) 4x4x8ft boards

BUILD

(6) 2x6x8ft boards

(6) 2x6x72" pieces

(6) 2x4x48" pieces

(42) 2x4x8" pieces

(21) 4x4x30" pieces

5lb 2.5" deck screws

(10) 80lb bags of concrete

TOOLS

PREP

Miter saw

Pencil

Tape measure

Carpenter's square

Safety glasses

BUILD

Tape measure

Sandpaper

Pencils

Safety glasses

Drill

Screwdriver bit

Level

Spray/marketing paint

Shovel/post-hole digger

PREP LIST

1. Sort all materials into piles by like items to ensure you have materials needed to complete project.
2. Set aside (6) 2x6x8ft boards. They will not be cut.
3. Take the (6) 2x6x10ft boards. Cut each into (1) 72" piece and (1) 48" piece, for total of (6) 2x6x72" and (6) 2x6x48" pieces.
4. Take (3) 2x4x8ft boards. Cut each into (12) 8" pieces, for total of (36) 2x4x8" pieces (you may not get (12) 8" sections from each 2x4x8ft board. If this is the case, use the leftover lumber from step 5 to cut more 8" pieces).
5. Take the final 2x4x8ft board. Cut 6 more 2x4x8" pieces from it. You will now have a total of (42) 2x4x8" pieces.
6. Take the (7) 4x4x8ft boards. Cut each into (3) 30" pieces, for a total of (21) 2x4x30" pieces.

BUILD LIST

1. Sort all materials into piles by like items to ensure you have materials needed to complete project.
2. Use the screwdriver bit, the 2.5" deck screws, and a drill to attach one 2x4x8" piece to each side of the 4x4x30" legs. Use 3 screws for each connection.
3. Connect the 4x4 legs to the 2x6 seats. The 8ft benches will have three legs, while the 6ft and 4ft benches will only have two legs. The outer legs should be 3.5" from the edge of bench. On the 8ft benches with three legs, the middle leg should be centered on the 4ft mark. Use six screws into the top of the 2x6 to attach each of the legs. Be sure that two screws go down into the 2x4 braces and one goes into the 4x4 leg.
4. Dig holes for benches' legs. Follow layout diagram, 8ft benches in back row, 6ft benches in middle row, and 4ft benches in front row. Bench heights can be staggered for stadium-style seating by digging holes at different depths for each row.