

Montessori Water Table

Helpful Tools:

Circular saw
Jig saw
Drill
Power screwdriver
Power sander
Paint brush

List of Materials:

Quantity	Nominal size of wood/ hardware	Cut to length	Description
8	1x4	18" long	Legs
2	2x6	18" long	Basin sides
1	2x6	15" long	Basin middle divider
2	2x6	22 ½" long	Basin Front & Back
1	¾" thick plywood	18x22 ½"	Basin Bottom
2	¾" thick plywood	19 ½"x12 ¾"	Hinged Table Tops
2	¾" thick plywood	6 ½"x17 ¼"	Vertical flap to support Table Tops in open position
11	3/8" diameter round rod	18" long	Shelf at bottom
2	1x2	22 ½" long	Front & Back of bottom shelf
2	1x2	18" long	Sides of Bottom shelf
4	Strap Hinges (4") w/ screws	-	For Hinged Table Tops
4	Small Hinges (about 1" x 1")	-	For connecting vertical flaps to side of basin and side of bottom shelf.
35	Screws 1 ½" long	-	Used to join all of the pieces of wood together
2	10 x 14 Plastic Dishpan, Tucker Housewares # 0348-2	-	Removable plastic dishpan (Bought at a local dollar store.)
1	Pint	-	Polyurethane

Generalized Assembly Instructions:

1. Assemble Basin Sides to Basin Front and Back. Drill "pilot" holes and screw together. "Pilot" holes should be smaller in diameter than screws. Drilling "pilot" holes first makes it easier on the power screwdriver plus the wood will be less likely to split.
2. Add Basin Middle Divider & screw to Basin Front and Back.
3. Add Basin Bottom to frame created by Basin Sides and Front and Back. Drill "pilot" holes and screw together.
4. Add Legs to Basin. Provide (2) 1x4's at each corner, one should overlap the other to form an "L" shape. Drill "pilot" holes and screw together.
5. Add 1x2's for Sides of Bottom shelf. Attach to legs with screws. Locate 1" from floor to bottom of 1x2.
6. Clamp the (2) 1x2's for the Front and Back of bottom shelf together. Drill (11) 3/8" diameter holes thru both pieces of wood. Space approximately 2" apart O.C. (on center).
7. Insert ends of round rods into the 1st and last set of holes. Attach with screws the Front and Back 1x2's for the bottom shelf to the Legs. Align Front and Back 1x2's with the 1x2's at the sides of the table.

8. Insert the remaining (9) round rods thru the holes. Use a hammer to knock the rods thru the holes. Don't be afraid to bend the rods if necessary to get them to go thru both holes.
9. Place the two Table Tops on top of the table. Position the Strap Hinges so that they will allow the TableTops to be opened 180 degrees. Mark the holes for the hinges on the TableTops first. Attach the hinges to the tabletops. Then mark the holes for the hinges on the Table Legs. Attach the hinges (and TableTops) to the Table Legs. Now you should be able to close the TableTops, which will cover the basins when not in use and open the TableTops to provide a work surface at each side of the Water Table.
10. To support the TableTops in the open position you will need to add a vertical flap at each side. Add two small hinges to each flap. Position hinges so they will align with the outside of the basin and the outside of the bottom shelf. Now add hinges (and vertical flaps) to the outside of the basin and bottom shelf.
11. Apply 3 coats minimum of polyurethane to all wood surfaces of Water Table. The more coats the better.
12. Place the two removable plastic tubs in the table. This should complete your Water Table. Enjoy **J**