Three-tiered Children’s Shelf

Difficulty

Easy

This cute kids shelf has clean lines and a mid-century vibe! Perfect for toys, books, stuffed animals, etc! It doesn’t HAVE to be for kid stuff though. This shelf would be great for your craft room, pantry, laundry room, & more! More details instructions on our website here: https://bit.ly/2LUSFgZ









Tools

Kreg Tools


Wood Project Clamp - 6"


Kreg® Pocket-Hole Jig 720

Other Tools

Square

Table Saw

Tape Measure

Band Saw

Drill (cordless)

Impact Driver

Nail Gun

Router

Router Table

Sander

Materials

Wood Products

1 Plywood , 3/4" Thick , Half Sheet

1 Plywood , 3/4" Thick , Quarter Sheet

1 Board , 5/4 X 6 , 72"

Hardware & Supplies

1 #8 1-1/4 In. Square Maxi-Loc Head Coarse Zinc-Plated Steel Pocket-Hole Screw (100-Pack)

1 #8 2 In. T-10 FIN/Trim Trim Head Screw GRK Fasteners

1 1-3/4 In. X 18-Gauge Brad Nails

1 #8 1 3/8 In. T-10 FIN/Trim Trim Head Screw GRK Fasteners

1 3/8 Dowel (Oak) Or Kreg Pocket Hole Plugs

1 Titebond Original Wood Glue

Cut List & Parts

1 Top Shelf, Back , 3/4" 4 1/4" X 29 11/16"

1 Top Shelf, Front , 3/4" X 3 7/16" X 31 1/16"

1 Top Shelf, Bottom , 3/4" X 11 3/4" X 29 11/16"

2 Top Shelf, Side , 3/4" X 5" X 11 3/4"

2 Top Shelf, Divider , 3/4" X 4 1/4" X 11 1/16"

1 Middle Shelf, Back , 3/4" X 4 5/8" X 29 11/16"

1 Middle Shelf ,Front , 3/4" X 3 7/16" X 31 1/16"

2 Middle Shelf, Side , 3/4" X 5 5/16 X 13 11/16"

1 Middle Shelf, Divider , 3/4" X 4 5/8" X 12 15/16"

1 Bottom Shelf, Back , 3/4" X 5 5/8" X 29 11/16"

1 Bottom Shelf, Front , 3/4" X 6 5/16" X 31 1/16"

1 Bottom Shelf, Bottom , 3/4" X 15 11/16" X 29 11/16"

2 Bottom Shelf, Side , 3/4" X 6 5/16" X 15 11/16"

2 Leg Front , 5/4 X 2" X 30 13/16"

2 Leg Back , 5/4 X 2" X 30"

2 Leg Top , 5/4 X 2" X 5 3/4"

Directions

1

Cut Plywood

I broke my sheet stock down to a more manageable size with a circular saw, then cut the remaining parts on the table saw.

2

Cut Dimension Lumber

Using a table saw, rip the 5/4 x 6 x 96" into 2" strips.

3

Cutting the Leg components

Using a Kreg Precision miter gauge, cut the components of the leg.

4

Cutting the Shelf Sides/Dividers

Using a table saw crosscut sled (80 degrees), cut the 10 degree angles.

Tip: Mark the location of the angles by dry fitting the shelves and scribing the dividers and sides where the top of the front meets them.

5

Drill Pocket holes

Drill pocket holes.

(2 holes) front/inside of Shelf Sides
(2 holes) both ends of the Shelf Backs
(3 holes) sides of the Shelf Bottoms
(4 holes) front of the Shelf Bottoms
(2 holes) both ends of the Leg Tops

6

Leg Assembly

Glue and assembly the legs.

7

Shelves Assembly

Attach the Shelf Sides to the Shelf Fronts, then attach the back to the sides, for the shelves with dividers attach them to the Shelf Front with 18 ga brad nails, then screw the Shelf Back to the Shelf Dividers with #8 FIN/Trim screws.

Screw the Shelf Bottoms to the Shelf Front and Shelf Sides with 1 1/4 pocket screws and lastly, screw the the bottom to the Shelf Back with #8 FIN/Trim screws.

TIP: Predrill the holes for the #8 FIN/Trim screws with a 5/64 drill bit to keep the plywood from splitting out.

8 Prep for Finish

Layout the shelf locations on the legs, then round the edges of the legs using a 1/4" Round-over Router bit. Routee the entire outside edge of the legs. On the inside of the legs route the areas around the shelves.

Fill the top two holes on the shelf legs with Dowels or with Kreg pocket hole plugs.

9 Finish

Sand and paint legs.

10 Final Assembly

Layout the shelf locations on the inside of the legs screw the shelves to the legs using #8 FIN/Trim screws 1 3/8".