Build Your Own Cornhole Board

Special Olympics Alberta

SCHOOL SPORT ALBERTA

Build - a - Cornhole Board

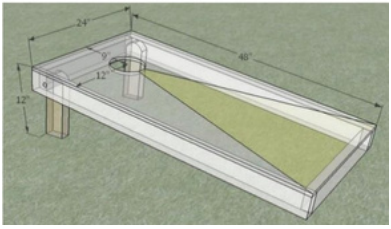
Tools

Jigsaw, measuring tape, compass, and drill with drill bit and Phillips-head screw bit, 1/2" drill bit, clamps, circular saw, random orbit sander, paint roller

Materials

(2) 24" x 48" pieces of 1/2" plywood for the surface, (4) 2x4 x 48" for the frame, (4) 2x4 x 21" for the frame, (4) 2x4 x 11-1/2" for the legs, 1-lb. box of 1-5/8" deck screws, (4) 1/2" x 4" carriage bolts with (4) washers and (4) wing nuts, wood putty, exterior-grade paint, primer

Step 1: Project Cut List and Plans



- two 24" x 48" sections of 1/2" plywood
- four 2x4 x 48" for the frame
- four 2x4 x 21" for the frame
- four 2x4 x 11-1/2" for the legs.

Step 2: Construct the Platform Box

- Cut the plywood into two 2' x 4' sections.
- Cut the 2x4s to the length specified in the cut list for the frame.
- Use 1-5/8" screws to fasten the 2x4s into a box with the 21-inch pieces inside the 48-inch pieces to form a 2' x 4' box.
- Lay the plywood on top of the box, use the plywood to square up the 2x4 frame.
- Fasten the plywood onto the frame with 1-5/8" screws.
- Repeat for the second platform box.

Step 3: Cut Legs and Fit

- Cut a 2x4 to 11-1/2" for the four legs.
- Make a full 3-1/2" radius cut on one end of each leg.
- To make the cut, measure 1-3/4" down the length of the 2x4 and draw a line across it.
- Place a compass point centered on that line then draw the arc.
- Use a jigsaw to make the cut.
- Turn the box upside down; lay a leg parallel, flush up against one of the top corners with the radius side in the corner.
- Clamp into place. From the inside of the box, make a mark in the centre of the 2x4 vertically inside the radius.
- Drill a 1/2" hole through the side of the box and through the support leg.

Step 4: Attach Legs

- Install the carriage bolt through both holes and attach with a washer and a wing nut.
- Check for operation; see if the legs can fold up and down inside of the platform.
- You may have to adjust the radius top if it is contacting anywhere, use a sander to do this.
- Repeat the process for the other legs.

Step 5: Cut the Leg Ends

- To cut the angle on bottom of the leg, turn the box right-side up and set it on a worktable with the legs tucked under.
- Place a block (or anything that will hold it up, we used a bucket) under the box so that the back of the platform is 12 inches off the tabletop.
- Slide the box to the edge of the table, pull down the leg closest to the edge so that it hangs just over the table edge.
- Using the tabletop as a guide, draw a straight line across the bottom of the 2x4.
- Repeat for the opposite side.
- Cut the ends off using a circular saw.

Step 6: Cut Hole in Platform

- To find the centre point for the hole, make a mark 9" down from the top and 12" in from each side.
- Use a compass to mark a 6" diameter circle around the spot that you marked.
- Pre-drill a hole along the edge of the circle large enough to accept the jigsaw blade.
- Remove the drill and use a jigsaw to cut out the circle. Sand the edges of the hole smooth.

Step 7: Finishing Touches

- Sand the entire board and around all edges including inside the circle. Putty all screw holes.
- Prime the entire box. When primer dries, re-sand the entire box. Wipe clean with light, damp cloth, and paint with an exterior-grade paint
  Note: we used a high-gloss
- Personalize your board. Add your school colours or logo.