

Chair Assembly

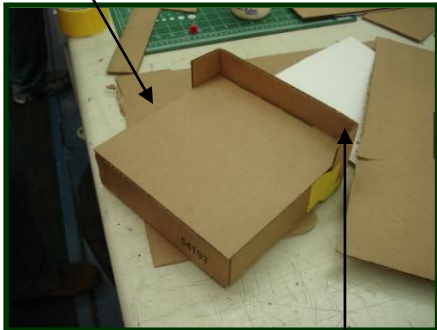
Nittany Engineers

(1/2 scale dimensions)

Materials

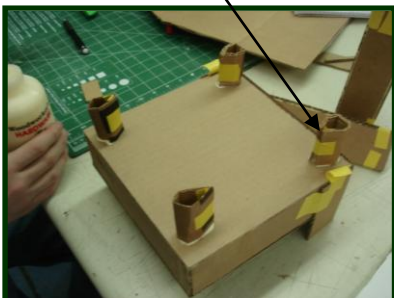
- Glue
- Cardboard
- Box Cutter
- Masking Tape

Step 1: Create a box 8.5 in x 8.5 in and 2 in tall. This will be the base for the chair.

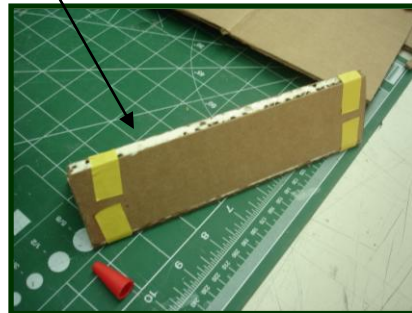


Step 2: Create a lip around the back edge of the box that is 3 in tall and wraps 1.5 in around the sides of the box.

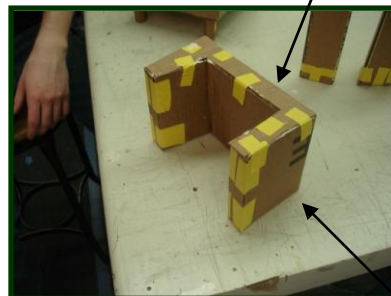
Step 3: Once the box is dry, flip it over and make 4 columns about 1 in in diameter and 1 in tall as a receptor for the legs.



Step 4: Cut out 12 8 in x 2 in rectangles for the legs. Then assemble the rectangles in a triangle shape using glue and tape.



Step 5: Create the backrest by first making the top base. Its dimensions are a 8.5 in x 4 in rectangle with another 6.5 in x 2 in rectangle cut out of the center.



Step 6: Create 5 in tall sides to make the back rest 3-d. Use tape to temporarily hold the sides while the glue dries.

Step 7: Assemble the legs to the bottom of the base. Then place the backrest on the base.

