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 8in 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 8.5in x 4in rectangle with a another 6.5in x 2in rectangle cut out of the center.

**Step 6:** Create 5in tall sides to make the backrest 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.