Rubber Band Trebuchet

Materials:

- 2 wood blocks 5 ½" x 2 ½" x 1" (D, E)
- 3 wood dowels 3/16" x 2 ½" (A, B, C)
- 1 balsa plank ⅜" x ½" x 7" (F)
- 1 8-32 x 5" bolt
- 1 8-32 nut
- 8 #8 washers
- 1 #4 screw eye hook
- 1 plastic egg shell
- 1 orthodontic rubber band
- Super glue

Tools:

- Drill with bits
- Wrenches
- Rotary tool with bits
- Clamps

Procedure:

1. Drill holes A and B halfway through block D, one inch from the front edge
2. Drill hole C halfway through block D, one inch from rear edge.
3. Repeat steps 1 and 2 for block E making sure to mirror Block D for dowel insertion.

4. Square blocks D and E with the dowel holes facing each other and clamp the blocks. Drill a hole for the bolt through the center of blocks D and E.
5. Drill a hole in plank F one inch from the end. Screw the eye hook into front of plank F nearest the hole.
6. Press dowels ABC into holes of block D and E to form the outer cage of the catapult.

7. Align the center hole in blocks DE with the hole in plank F and push the bolt through adding washers to center plank F. Attach a nut to the bolt and tighten. Ensure plank F moves freely.
8. Trim the bottom half of the egg shell with the rotary tool to form a cup. Glue the shell to the top rear of plank F.
9. Thread the rubber band through the eye hook and bottom dowel. Launch offensive!