

Sanding Ball Project

By Craig Sobel

1. Obtain sufficient threaded rod and cut to length
Smaller balls use 1/4
Largest uses 5/16 or use 5/16 on all.
2. Find blocks of wood sufficient to cover sizes required for the number to be made, Largest is about 2.5" square
3. Tap the block with thread of threaded rod
4. Cut a short piece of threaded rod 2" long.
5. Chuck the block on the lathe and turn the block down to size required. The 1.75" block should be concave. Create a form to check the curvature of the inside. Flatten the top of the largest block. For the smallest, turn the wood to the round form. No rubber ball is used for this one.
6. Remove the block from the rod, do the next block
7. Cut the sand paper using the templates above, Use a thin marker on the back side of the cloth sand paper, cut using sheers.
8. Flatten the largest ball on one side till flat spot is about the size of the block.
9. Epoxy or polyurathane the ball to the cone. Be sure to center them carefully
10. Spray the back of the sandpaper with a spray on glue or use contact cement.
11. With the sandpaper glue side up, place the ball tip side down and centered. Pull the sandpaper strips up and lay them straight up the sides.
12. Use duct tape strips around the ends of the sand paper at the base of the cone do seal then ends.
13. Use blue tape or rubber bands to make sure the sand paper adheres to the form.
14. Insert the finished threaded rode into the block, Either use a nut or epoxy to set the rod.
15. Consider wrapping the threaded rod with duct tape for a few inches below the cone. You will be holding this portion of the rid while running it and don't want the thread eat your skin.

Sources

Pinky Balls, Amazon \$9.99 for 3 balls plus shipping

1.75" balls, Party City \$5.00 for 8 balls

Sandpaper, Klingspor woodworkingship.com Gold cloth sheets \$2.00 Per sheet. Must buy 5 per grit

220 SH90310

150 SH90306

120 SH90304

100 SH90302

80 SH90300

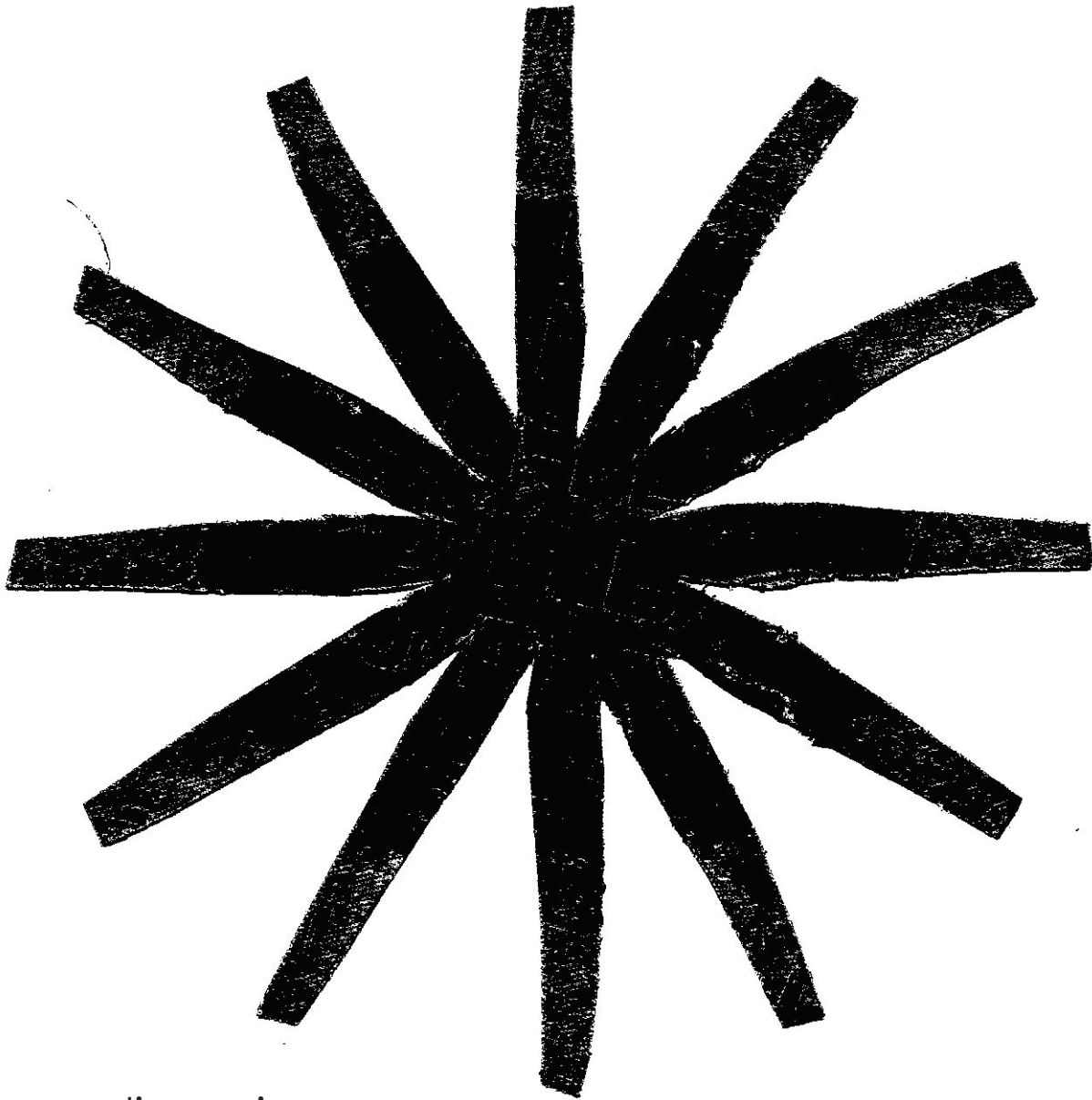
Threaded rod



1" diameter ball
1/4" or 5/16" threaded screw
6" long

Cone (entire piece)
2" long
1" at widest, .75 at base





cone dimensions

Top 1.5"

Bottom .75" Length 1.5"

1 3/4" diameter ball



2.5" ball



Ball is cut to 2" tall with flat bottom
Base is 3/4" tall
Bottom of cone is 1.5"
Top of cone is 2"
Epoxy ball to cone

