

# Paul's Owl

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Based on Paul Howard's demonstration February 2020

1. Make the ball
2. Mark centres for eyes
3. Drill and Cut out eye socket for one eye
4. Rout radial pattern for first eye
5. Repeat for 2<sup>nd</sup> eye
6. Make nose
7. Make cap
8. Make mortarboard and tassel
9. Make button to hold tassel
10. Make body

## Make the ball.

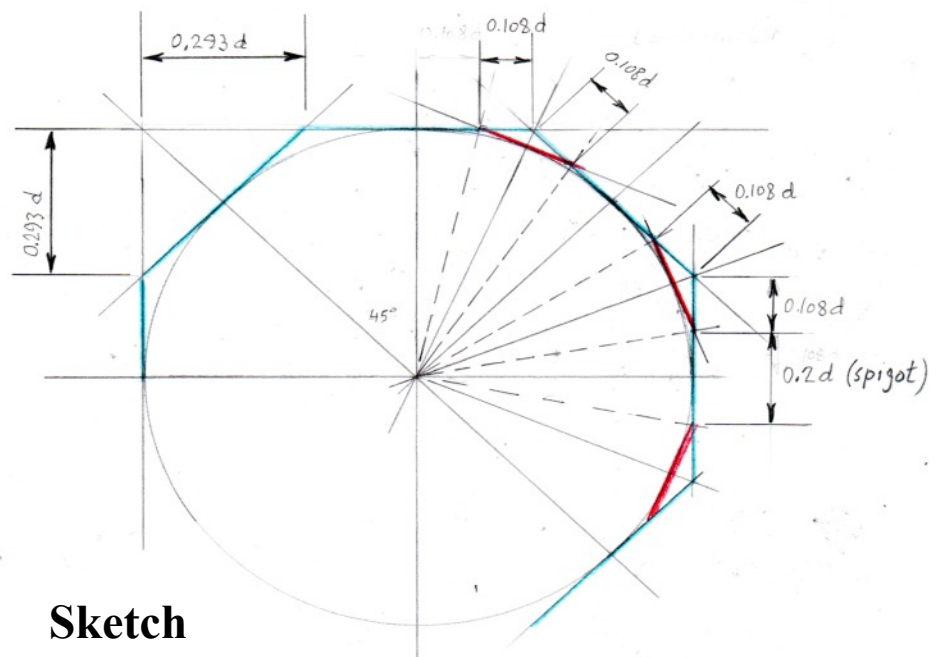
Initially 2 sticks are glued to the main blank for the ball (see photo below); When preparing the blank allow a little more for the length and diameter of the blank.

For turning the ball shape refer to the sketch below. Initially bring the blank to a round cylinder.. Then mark out  $0.293 * d$  (i.e. 29,3 mm for a 100 mm diameter) as shown on the sketch and cut along the blue contour at 45 degrees.

To make a closer approximation to the ball shape mark circles  $0.108*d$  (i.e. 10.8 mm for 100 mm ball) from the 'corners' of the blue band. This is where the next cut along the red band is made.

Turn the 2 sticks down to a diameter of  $0.2*d$  (i.e. 20 mm) near the ball, see second photo.

Blending should then result in a near perfect ball and it only remains to cut off the sticks and fitting the ball between cups to enable the stumps from the sticks to be turned away. Finally sand the ball all over.



Sketch