

Christmas Ornament – Hands-on Workshop

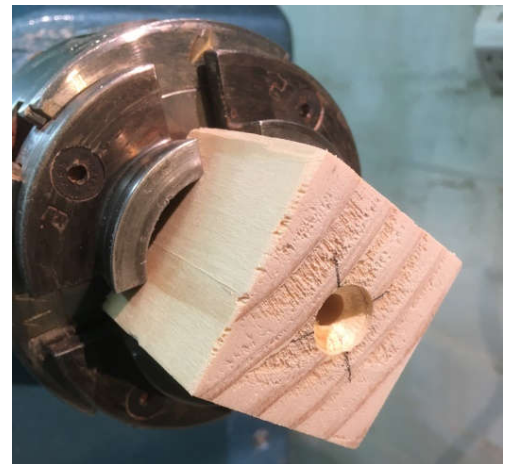
(Reference: Dan Douthard, Gwinnett Woodworkers)

Equipment

- 100mm Chuck
- Pin Jaw Chuck / Pen Blank Chuck
- Pen Mandrel
- Mandrel Saver (optional)
- Jacobs Chuck
- Drill Bits
 - 6mm brad point
 - ¼" twist drill bit
 - ½" countersink bit
- Chisels
 - Roughing gouge
 - Spindle gouge
 - Skew
 - Parting Tool
- Safety Equipment
- Abrasives
- Desired finishing products

Body

- Mark Centres – both ends
- Mount Cube in 4 Jaw Chuck
- Drill over half way with
 - 6mm Brad point or centre bit
 - ¼" twist drill
- Use ½" countersink bit or chisel to form chamfer
- Reverse Cube and repeat

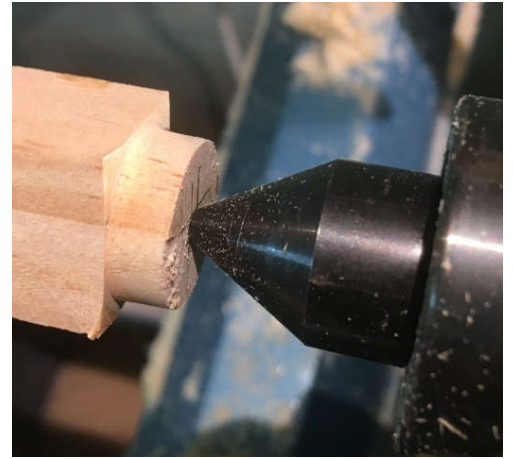


- Mount cube on pen mandrel using chamfered guide bushes and Turn to cylinder – 40mm diam
- Turn to desired shape - **DOESN'T HAVE TO BE ROUND: BARREL SHAPED, TEARDROP, BELL, WAISTED, ETC.**
- Embellish as desired.
- Sand, seal and finish with products of choice.



Finial and Icicle

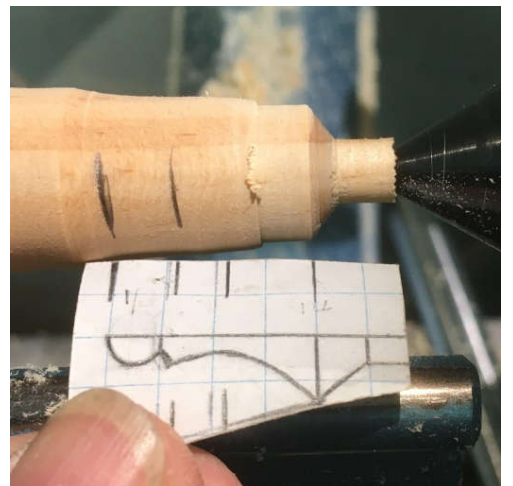
- Mark Centres – both ends
- Temporarily Mount in Pin Jaw Chuck
- Use Skew Chisel to create a shoulder
- Create a Tenon to hold in chuck



- Mount spindle in pin jaw chuck
- Turn ¼" Tenon and chamfer
 - Chamfer should be greater than 45deg



- Turn a length of the spindle to round 14mm diameter
- Use template to mark out finial



- Use Parting tool to create ¼" Tenon at head of finial
- Taper finial
- Turn Scotia
- Partially turn ball at head of finial
- Sand, seal and finish
- Reduce pressure from tail stock
- Part-off finial
- **REPEAT FOR ICICLE**



- Create Jam Chuck using waste material
- Mount finial
- Clean and finish tip of finial
- Drill with 1.5mm drill bit



Templates

