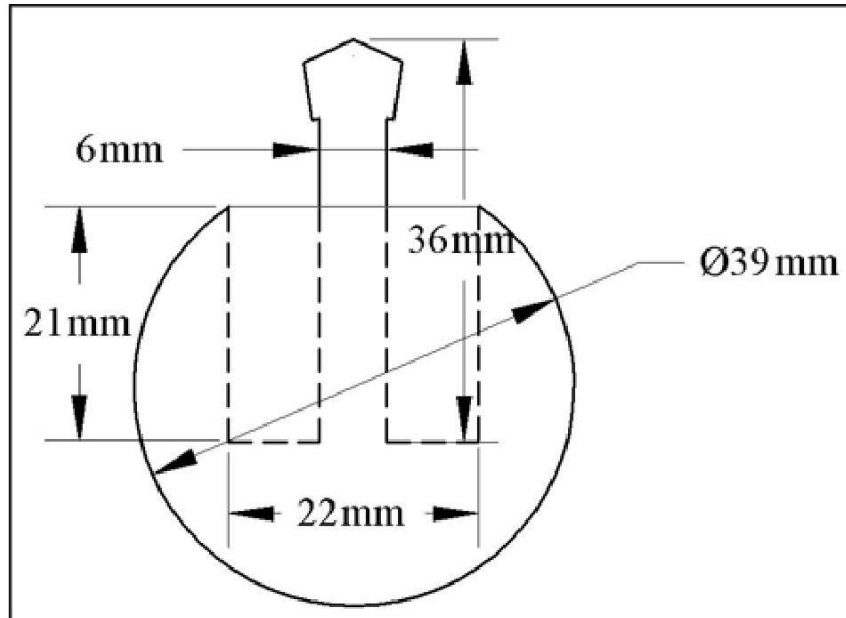# GAW November 2016 Turn 'n' Win Task

Tippe Top

A tippe top is a kind of spinning top. When a tippe top is spun at high speed its handle slowly tilts downwards more and more until it lifts the body of the top off the ground with the stem pointing downward, so effectively it is spinning upside down. As the top's spinning rate slows, it loses stability and eventually topples over.

How to make your Tippe Top

The Ball
1. Hold your piece of wood (approx. 45mm sq. x 50mm long) between centres, make it round and add a chucking spigot
2. Hold in your chuck using the spigot and drill a hole 22mm diameter and 21mm deep
3. Now drill a smaller hole 6mm diameter and 6mm deep into this hole (this is to receive the handle)
4. Make a jam chuck with a 22mm dia spigot approx. 40mm long which will be used to hold the wood for making the ball
5. Hold the jam chuck in your jaws and insert the wood to make the ball onto this spigot, turn the ball to a diameter of 39mm.
6. Give a quick sand and polish. Ball is now complete.

The Handle
1. Hold your piece of wood (approx. 18mm sq. x 50mm long) between centres, and make it round and add a chucking spigot for small jaws.
2. Hold in your small jaws and turn the end 40mm down to 10mm.
3. Next turn down to 6mm the last 26mm (this should fit into the 6mm hole you drilled into the ball)
4. Sand, polish and then part off at 40mm long
5. Attach the 2 pieces together using a small amount of pva wood glue
6. Spin the completed top as fast as you can and when you've found the knack the top will spin upside down.

All sizes are approx. and can be increased or decreased proportionately to make a larger or smaller Tippe Top.

Please bring your completed Tippe Top along to the November meeting to enter into a free prize draw to win a bottle of wine.

As part of the GAW Christmas social in December there will be a competition to see who can make their Tippe Top spin upside down for the longest time. There is a secret to make the top spin for longer, can you find out what it is!