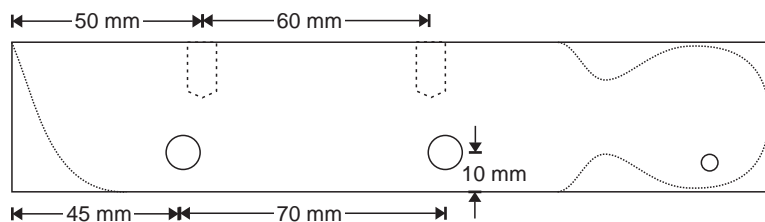


## Tow Along Turtle

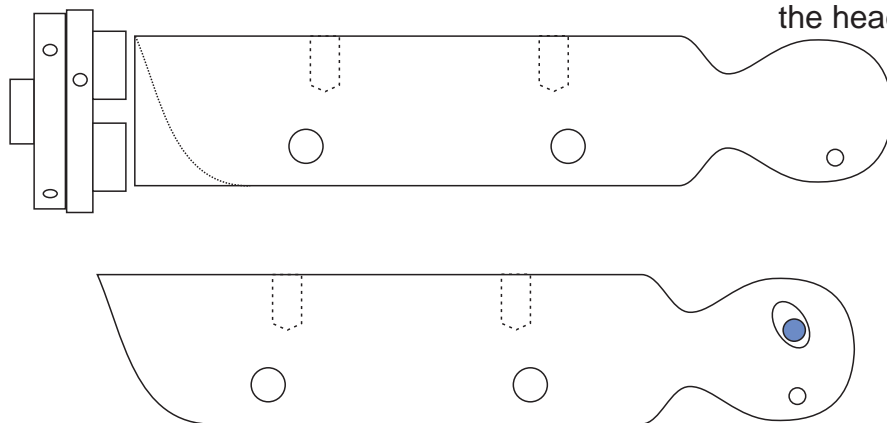
As made by John Balsillie

There are three parts to this project: Body, wheels and shell. Each made separately and with choices for decoration. For the wheel axles and to join the parts you will need 8 mm dowel. You may purchase stick-on eyes or draw them on the head.

**Body.** Start with wood 40 x 30 mm and 200 mm long.



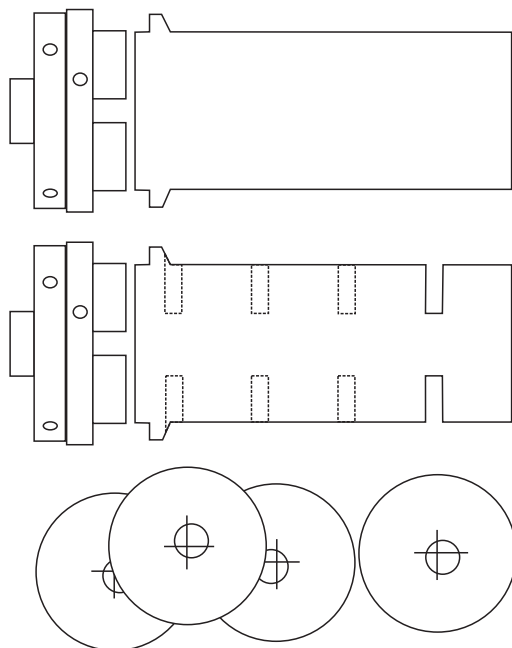
The 30 mm side is the width of the body and the 40 mm side the height as drawn here. Drill two 8 mm holes at least 10 mm deep into, and central to the width of, the top edge of the body to secure the shell. Drill two 9 mm holes through the width of the body at the locations shown for the wheels. You may drill a tow string hole about where the mouth would be. Mark a centre point on the head end.



Mount the wood in a chuck. Bring up the tailstock for security and accuracy. Turn the head to shape and then remove the tailstock for the final cuts.

Cut the tail of the body to shape. Sand all surfaces. Add eyes to the head.

**Wheels.** Start with wood that is 50 x 50 x 100 mm.



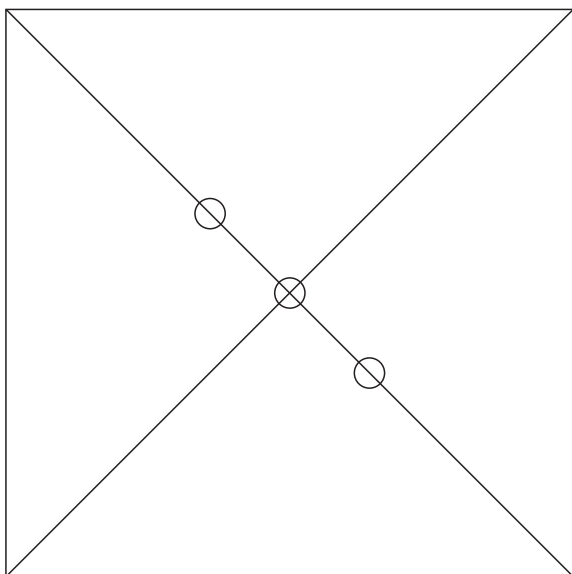
Mount this wood directly in a chuck or mount it between centres, turn a spigot on one end and then mount it in a chuck. Bring up the tailstock for security and then turn it round and down to 40 mm diameter.

Dress the end of the wood and sand. Bring up the tailstock again for security and this will also mark the exact centre on the end of the wood. Part off an 18 mm wide wheel from the end of the wood. Sand the parting cut side. Repeat this for three more wheels.

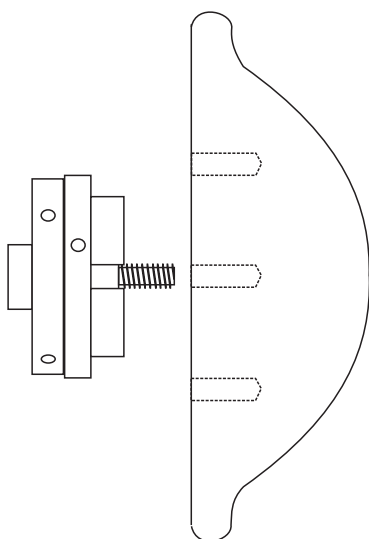
For the axle, drill an 8 mm hole in each wheel. These to be 1.5 to 2.0 mm off-centre in each wheel.

## Tow Along Turtle P2

Shell. Start with wood that is 150 mm square and 40 to 50 mm thick.



Determine which side you wish to be the top and drill a 8.5 mm hole in the centre of the under-side to mount the wood on a screw chuck. Drill two 8 mm holes 30 mm to each side of the centre hole for short dowels to secure the shell to the body. If the wood shows a significant grain pattern you may rotate the location of these two securing holes to improve the look of the finished work.



Mount the wood on a screw chuck. Turn it round and then to the shape of a turtle shell. Sand and finish all surfaces. Add paint or a pattern of your choice if desired.

### Assembly

Cut two 60 mm lengths of 8 mm dowel for the axles and two 20 mm lengths of 8 mm dowel to join the shell to the body. When gluing the wheels to the axles try to get the wheel offsets in opposing positions to maximise wobble of the tortoise as it moves. Add a colourful towing string.

