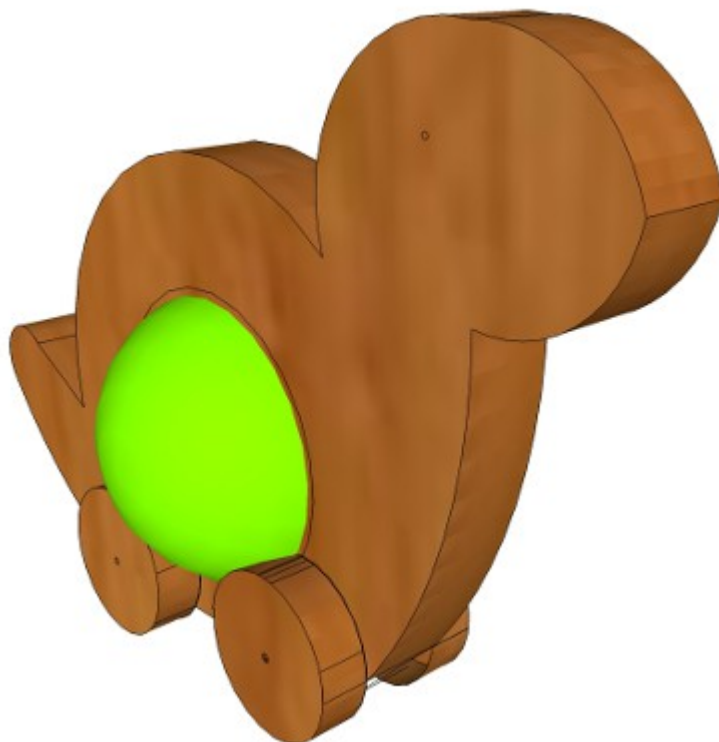


# WWCH October 2022 Toy of the Month



Turbo the Snail



## *Instructions*

Please remember to work safely.

This is one way to make the Turbo the Snail. You may have to adapt to the tooling you have available to you. Always use the tools and procedures that make the most sense to you.

1. Make a template from the attached full size pattern. 1/8" scrap or old file folders are a couple of materials you could use. Verify that the axle hole marks are 3/8" from bottom and 2 3/8" apart. **These measurements are very important for making sure the ball turns when the toy is rolled.**
2. You'll need a stock of 9" high by 6" long by 3/4" width. **It is very important that you use 3/4" stock for this project. Any variance throws the geometry of the wheels to the ball off.**
3. Use the template to outline the Turbo the Snail on the material.
4. Use an axl for marking the axle centers. Just poke it through the pattern.
5. I'm using a scroll saw. Use this or a band saw to cut just outside the template pattern lines for the Turbo the Snail.
6. For the center circle you have two options. A) Use a 2 3/4" hole saw or follow the dotted line on the pattern and cut with your band saw or scroll saw.
7. At the drill press, drill the 7/32" axle holes.
8. At the sander, sand the saw marks from the edges of toy.
9. Use a drum sander and smooth the center circle.
10. At the router, use a 1/4" round over bit on all edges including inside the center.
11. Sand any rough edges left from the routing process.
12. Wipe the body of the toy with odorless mineral spirits to see if there are areas that need more sanding. Repeat as needed.
13. The axles will need to be shortened to 7/8"
14. Install the wheels. Note: you want a kind of loose fitting wheel to make sure they all turn freely.
15. Finish with Mazola Corn Oil. Let dry. Wipe off excess. Beeswax is another option. Finally, you may also leave with no finish to allow for customization of a paint job by child.

We at the Toy Group of the WWCH would like to thank you for participating in our toy making charitable activity. These toys will bring smiles to the less privileged children of our area.

Turbo the Snail Plan – To Scale – 3/4 Inch Thick Stock

