

March 2021 Toy of the Month

Helicopter

Remember: **Your safety comes first and is your responsibility**

Toy: **Helicopter**

Quantity: _____

Your Name: _____

Category:



General:

- The body of the helicopter is made from a 2 x 4 six inches long
- The Main rotor is made from a (re-sawed) piece $\frac{1}{4}$ thick x 1" wide x 4" long. Or if you prefer, you may use a piece of $\frac{3}{16}$ " plywood.
- Tail rotor is 1" wide x 2" long made from the same material as the main rotor.
- Wheels are 1-1/4"
- Axle and rotor pins are $\frac{7}{32}$ " x 1-1/4"



Helicopter Body

1. Trace pattern from your template (or cut the drawing Helicopter Body template and paste) to your 2" x 4"
2. Using the band saw, cut out shape of the body
3. Locate and drill the 7/32" thru holes for the axle pegs. *(It is recommended that they be drilled through from one side to get the best alignment)*
4. Locate and drill the propeller and tail rotor axle pin holes 3/4" deep
5. Remove sharp corners and edges and sand all surfaces to at least 120 grit sandpaper

Propeller & Tail Rotor

6. Trace patterns from your template (or cut the drawing rotor template and paste) to your re-sawed or panel wood.
7. Using the band saw, cut out shapes of the rotor & tail rotor
8. Locate and drill the 1/4" diameter hole in both rotors.
9. Remove sharp corners and edges and sand all surfaces to at least 120 grit sandpaper

Assembly & Finishing

10. Assemble the propeller to the helicopter body with glue, making sure that clearance exists to allow it to turn freely.
11. Add glue to the axle holes and assemble the wheels and axle pins.
12. If you finish the helicopter, use a non-toxic finish, such as mineral oil. Do not use corn oil or vegetable oil as it will get rancid or cause mold. Many agencies actually prefer unfinished toys so the kids can finish them.
13. Pack your toys in a box. Fill out a toy label and add it to the box. Mark a "1" in the circle for "Airplanes and Boats"
14. Boxes and labels are available at the toy table.

John Kneebone (Modified by Mike Robards)

CIWW

2/15/2021

1" Holes

Hole for rotor

