



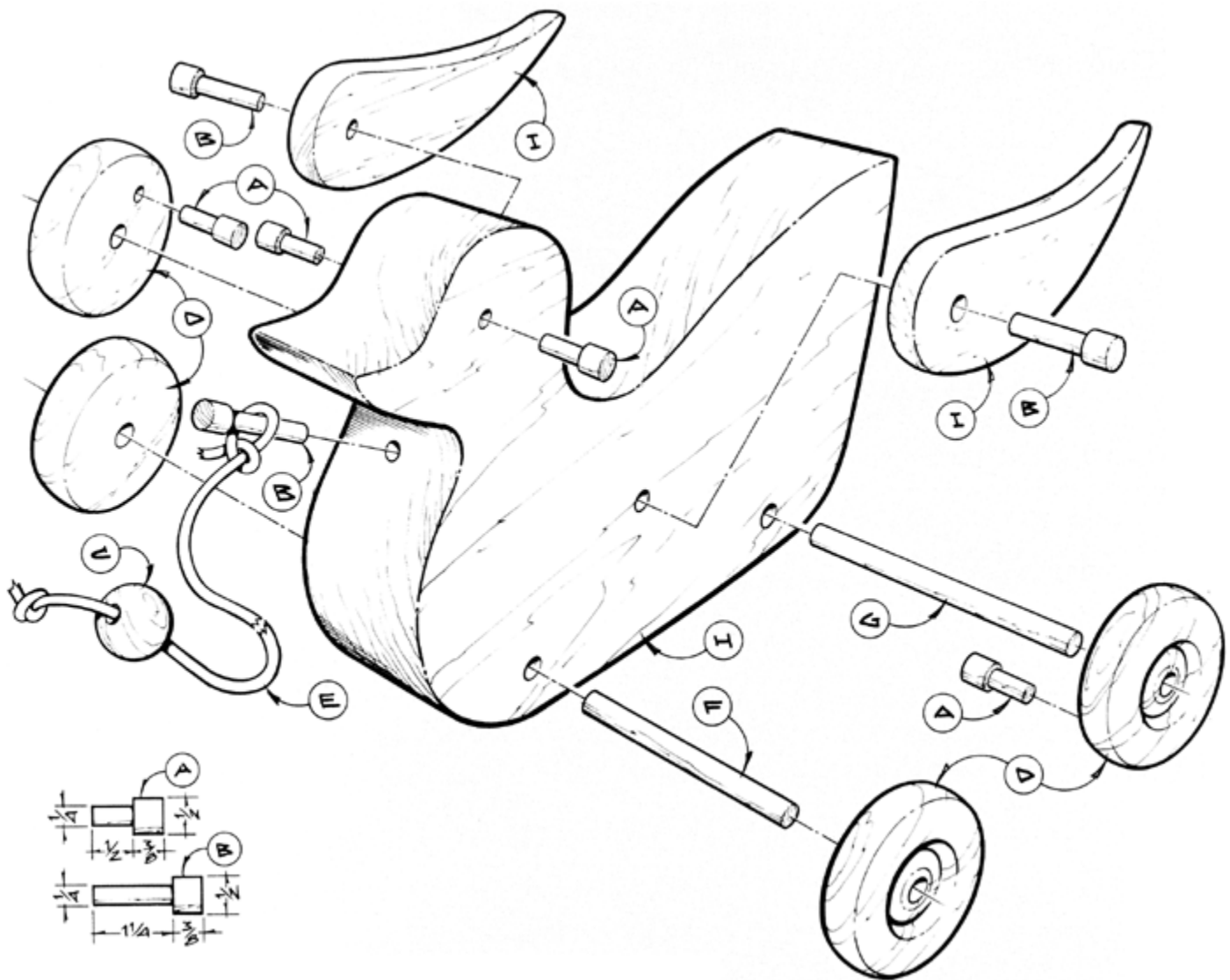
Project 19247EZ: Duck Pull Toy

Pull toys have long been favorites with the small fry. This simple-to-build duck rolls along easily on four large wheels, with an up and down wing motion generated by offset pegs mounted on the rear wheels. Our duck is made from cherry but most any wood can be used. Maple and birch are good choices because they are hard. You can also use pine but it will not be as durable because it is a soft wood.

Duck Pull Toy Materials List

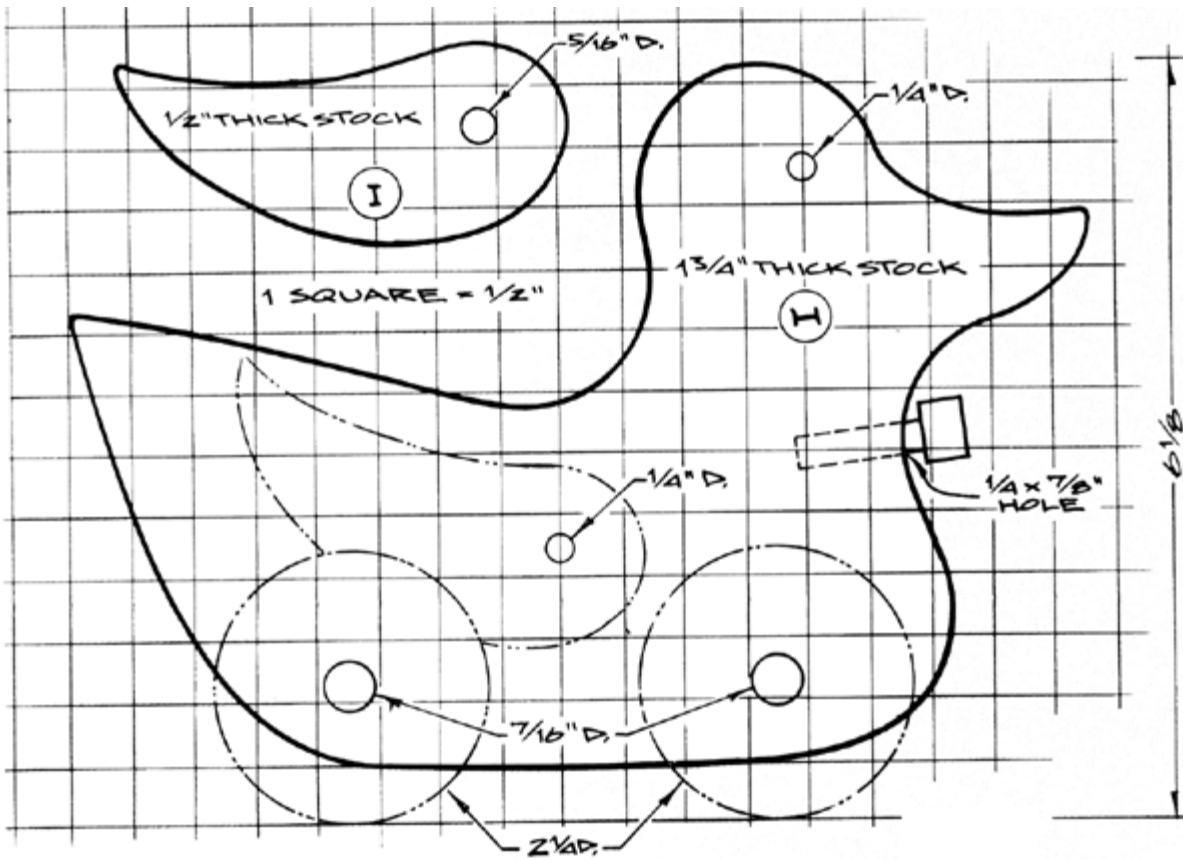
Part	Description	Size	No. Req'd
A	Short Peg	As shown	4
B	Long Peg	As shown	3
C	Ball	1" dia.	1
D	Wheel	2-1/4" dia. x 3/4" thick	4
E	Pull Rope	7/32" dia. x 24" long dowel	1
F	Front Axle	3/8" dia. x 3-3/8" long dowel	1
G	Rear Axle	3/8" dia. x 4-5/16" long dowel	1
H	Body	1-3/4" x 5-3/4" x 8-1/4"	1
I	Wing	1/2" x 1-11/16" x 3-5/8"	2

Duck Pull Toy Complete Schematic



Duck Pull Toy Step-by-Step Instructions

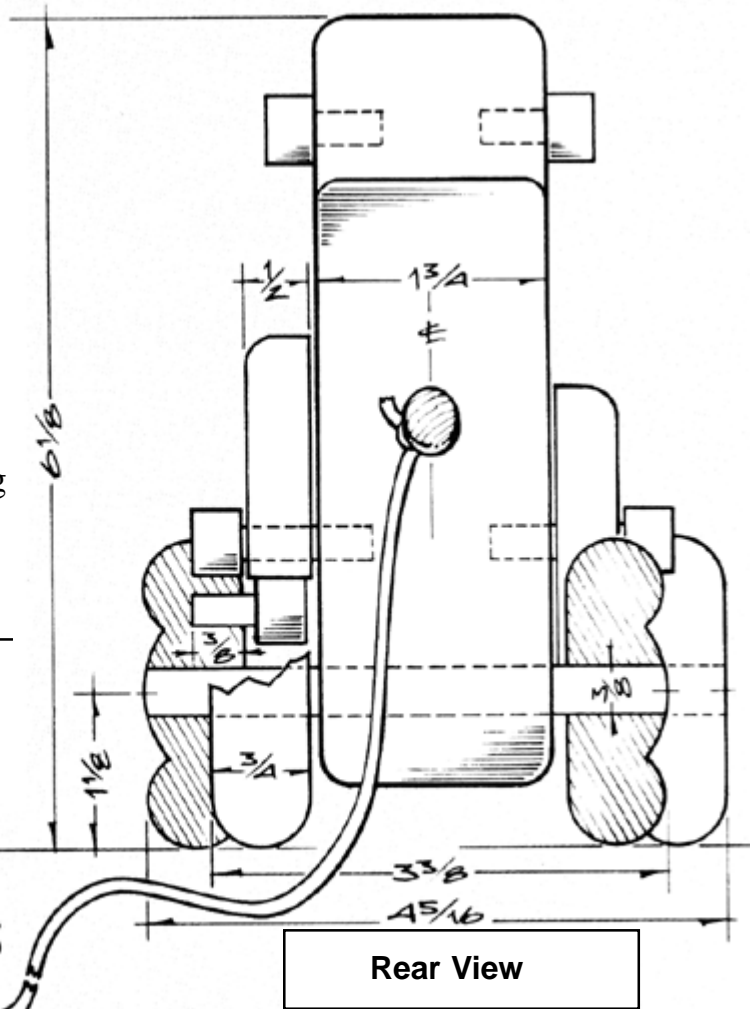
1. Lay out the grid patten, as shown on a 1-3/4" board to make the body (H) and wings (I).
2. Transfer the duck and wing profiles.
3. Use the band saw, saber saw, or jig saw to cut the profiles out.
4. Use the band saw to resaw the two 1/2" thick wings from the wing cutout.
5. Final sand the duck body and wings.
6. Use glue and clamps to assemble the body and wings.
7. Make the pegs (A and B), the ball (C), the wheels (D), the rope (E), and the axles (F and G) as shown.
8. Drill the various holes as indicated to accept the pegs and axles to begin final assembly.



Side View

9. Glue the eye pegs in place.
10. Mount the wings.
11. **NOTE** that the $3/8$ " deep peg holes on the inside of each rear wheel are located about midway between the axle and outer diameter.
12. Mount the wheels on their respective axles and glue the rope pull peg in place.
13. Leave unfinished.

These plans were originally published in Volume 9, Issue 6 of *The Woodworker's Journal* (Nov./Dec. 1985, pages 48-49).



Rear View