

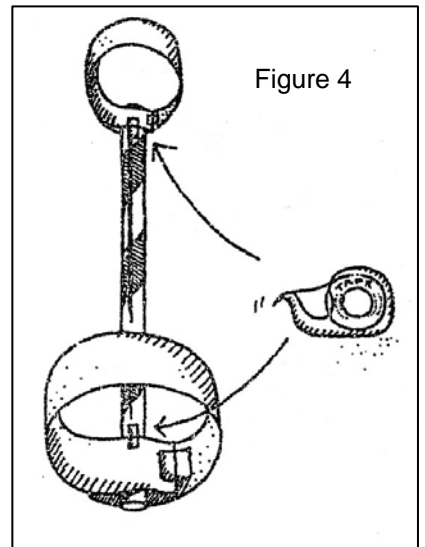
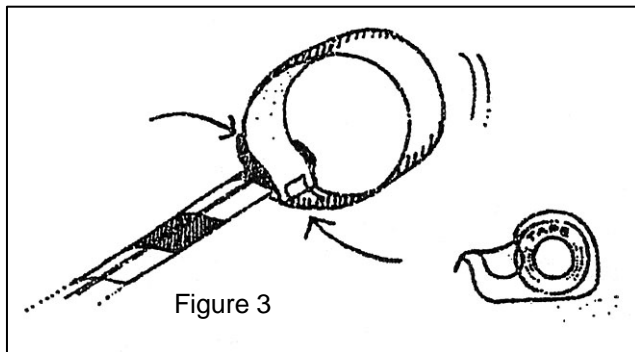
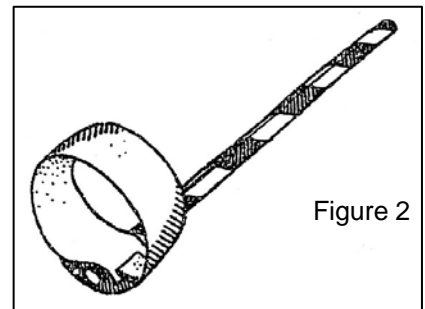
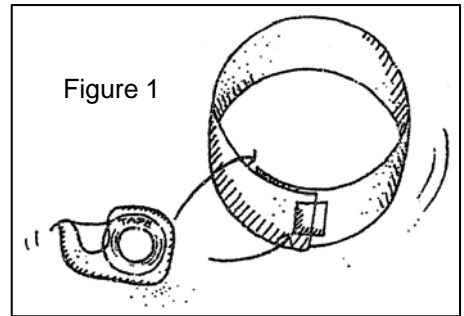
# The Straw Glider

The Straw Glider has round, or "circular," wings. Circular wings have been tried on full-sized airplanes almost since the beginning of aviation, but they have never been very successful. On the Straw Glider they work very well.

Materials:

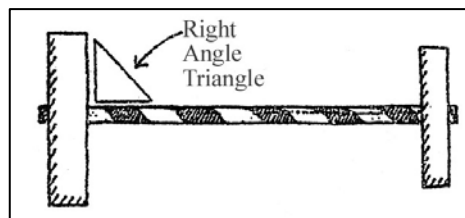
- Sheet of paper
- A plastic drinking straw
- Scotch tape
- scissors

1. Cut the two strips of paper at the bottom of the page. (one should be  $\frac{3}{4}$  inch by  $6\frac{1}{4}$  inch, the other should be  $\frac{1}{2}$  inch by  $5\frac{1}{2}$  inches.)
2. Bend the large strip of paper into a circle so that the ends overlap slightly and tape as shown. The overlap will form a pocket into which the straw will fit. See *Figure 1*
3. Pry open the pocket and slip it over one end of the straw. See *Figure 2*
4. Bend the smaller strip of paper into a circle and tape it the same way you did before. Slip it over the other end of the straw. See *Figure 3*.



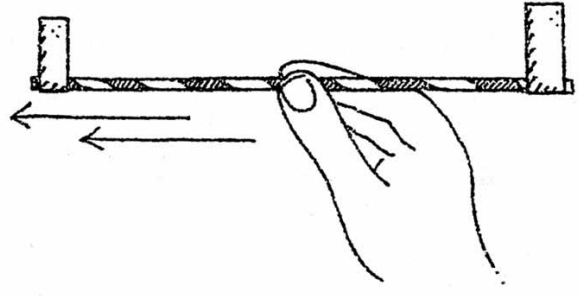
5. Move the two paper circles (the circular wings) until they are both positioned above the straw as shown. Tape them into place. See *Figure 4*
6. Looking down on the glider, make sure that the wings are at right angles to the straw. If they are not, loosen the tape and re-tape them so they are straight. See *Figure 5*

See Figure 5

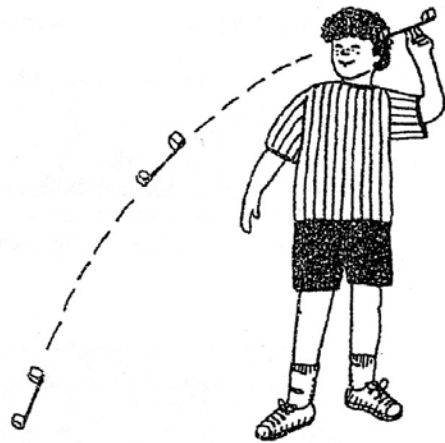


## Trimming and Plying the Straw Glider

To fly the Straw Glider, hold it by the straw with the smaller wing to the front and throw gently.



If the glider nose dives, move the large wing forward slightly and try again. If you move it too far forward, the glider will wobble **through the air**.



If the glider wobbles when you first fly it, **move the small wing back slightly** and try again. Properly adjusted, the glider should **have a long, flat glide**.

