

Flying Toys

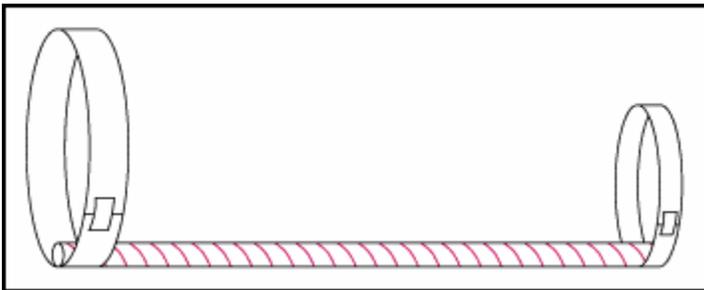
Source - <http://www.yesmag.bc.ca>

Super Looper

This flyer has circular “wings”. They may look strange, but they work like regular wings--differences in air pressure above and below the wings create lift.

Materials

- ✿ straws
- ✿ paper
- ✿ scissors
- ✿ tape
- ✿ ruler



Instructions

- ✿ Cut a strip of paper (2 cm x 20 cm). Form a loop and tape the ends together.
- ✿ Cut another strip of paper (1 cm x 15 cm). Form a loop and tape the ends together.
- ✿ Tape the loops to either end of the straw.
- ✿ Let your glider fly!

A Step Further

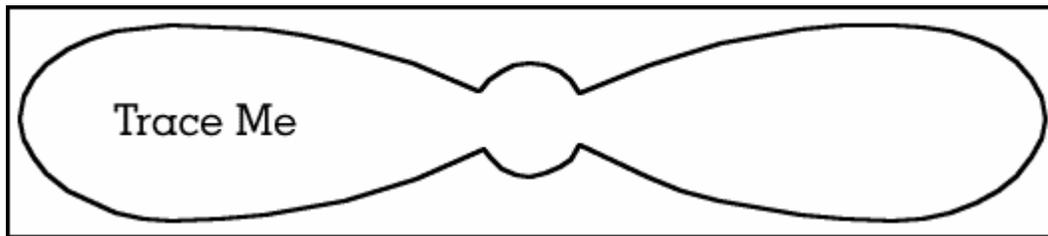
Can you throw the Super Looper farther with the big loop or the small loop facing forward? Try adding another loop -or two! Make the loops bigger or smaller, wider or thinner. Try adding some wings. Put a twist in the loops before you tape them. What happens? What if you make the Super Looper with two straws. Will it still fly? Can you think of other ways to make your Super Looper even more super?

Spinning Cyclone

A propeller (like the cyclone) is like a spinning wing. On an airplane, air moves faster over the front of the propeller blade, lowering air pressure and creating thrust. The thrust created by the propeller pulls the plane forward.

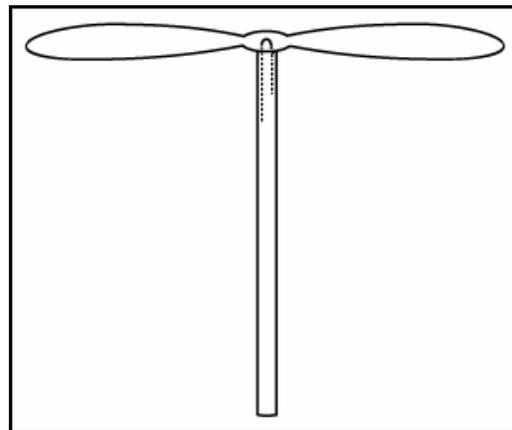
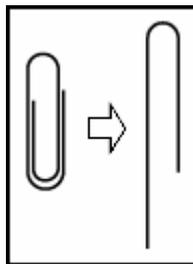
Materials

- ✿ a cereal box
- ✿ straw
- ✿ thumb tack
- ✿ paper clip
- ✿ scissors
- ✿ tape



Instructions

- ✿ Trace propeller pattern onto the cereal box and cut it out.
- ✿ Poke two holes in the centre of the propeller with the thumb tack.
- ✿ Unbend the paper clip (as shown) and poke it through the holes in the propeller.
- ✿ Push the paper clip all the way down into the straw.
- ✿ Tape the straw firmly to the propeller.
- ✿ Hold the straw between your flat hands.
- ✿ Spin the Cyclone up into the air by rolling it off your hands.



A Step Further

Experiment with different propeller shapes. What happens if you add a second propeller to the Cyclone? Try bending your propeller blades at different angles.