HOW TO BUILD YOUR PAPER AIRPLANE!

THE “CANARD”

1. Pattern side up, fold paper in half, then unfold.

2. Fold both top corners in to center crease. Then turn over.

3. Fold both sides in again so the corners meet at the middle crease.

4. Unfold loose flaps from behind top of plane.

5. Fold top portion in half, toward the back. Then fold plane in half.

6. Fold down both wings so the two top corners meet the bottom edge of the plane.

7. Unfold wings so they lie horizontal when the plane is in flight.

★ Make sure the location of the star on your paper plane print out matches the location of the star in the directions below!

YOU’RE READY TO FLY!
PREPARE FOR TAKE OFF!

Think your plane has the stuff to go pro? Check out these tips, tricks, and modifications and put your aircraft to the test!

1. Gently bend up the rear corners of the wings (as shown in diagram). This balances the plane in flight.
2. Bend a wire coat hanger into a hoop and hang it.
3. Attach three paper clips to the back of the vertical surface (as shown in diagram).
4. Try to fly the plane through the hoop.
5. Now move the paper clips to the front of the plane and try again.

What's the difference?

WHAT'S GOING ON?

First, you'll need to know what these three things mean:

Stability: An airplane’s tendency to right itself after it is disturbed.

center of Lift: The point where all the lifting force is concentrated.

Center of Gravity: The “balancing point” of an airplane. At this point there is just as much mass in front of it as there is behind it. If you put your finger here, the plane will balance on it.

So where’s the best place to put the weight? If the center of gravity is directly under the center of lift, then they balance each other. So for stable flight, the best place to put the weight is in the middle of the airplane!