

Glider

Make a glider that twists and turns!

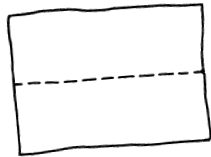
Sent in by Andrew C. of Sykesville, MD

What You Need

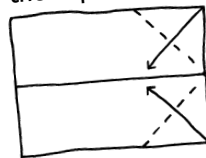
- sheet of 8.5" x 11" paper
- small paper clip
- scissors

Try It
Out!

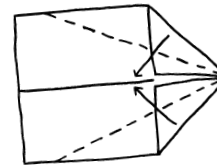
1 Fold the sheet of paper in half the long way, then **open** it.



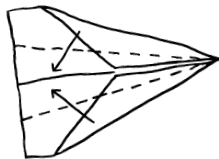
2 Fold the top corners of the paper to the center so that you have two triangles at the top.



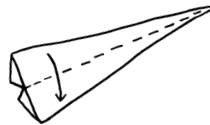
3 Fold both sides over to the center again.



4 Fold the sides to the center one last time!



5 Fold the plane in half, the opposite way.



6 Flip the glider over and **open** the wings. **Clip** a paper clip to the bottom of the glider.

7 Cut a flap on one end of each wing. Bend both flaps **up**.



8 Throw your glider. How does it fly?



Science Scoop

- If both flaps are **up**, air pushes on the flaps, which pushes the back of the glider downward. This makes the front of the glider turn upward.
- If both flaps are **down**, the air pushes on the flaps, which pushes the back of the glider upward. This makes the front of the glider turn downward.
- If one flap is **up** and the other is **down**, air pushes so that one side of the glider goes up and the other side goes down. This makes the glider spin and flip.



Now it's time for you to **experiment**. Fold the flaps in different ways—like both flaps down or one flap down and the other flap up. How does the glider fly each time? What happens if you make the flaps **bigger** or **smaller**? Change **one thing** (that's the variable), and make a **prediction**. Then **test it** and send your results to ZOOM.



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