

The wide glider

A folded tip and broad wings change the dart.

Some practice · 8 picture steps

You need one A4 sheet of ordinary printer paper and a ruler. No scissors needed.

Lumi's flight rule

Launch gently into clear space, never towards people or animals. Keep away from roads, stairs and open windows. Never throw from a balcony. An adult can help with tricky folds.

How to read the pictures

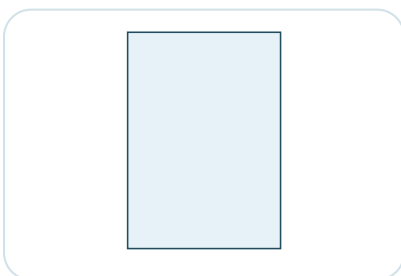
Each step shows Before, Fold and After. Blue shows the paper. Light orange marks the part you move. Thin blue-grey lines show existing creases. Orange dashes show the new crease. Follow the curved arrows. Two matching mirrored arrows mean: fold both sides, one at a time. "Turn over" means the other side faces up.

Let's fold

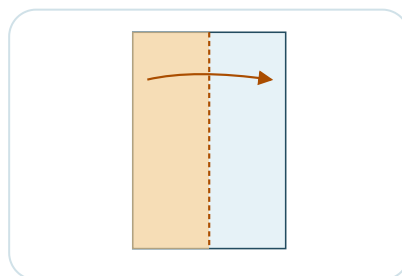
Step 1

Mark the middle

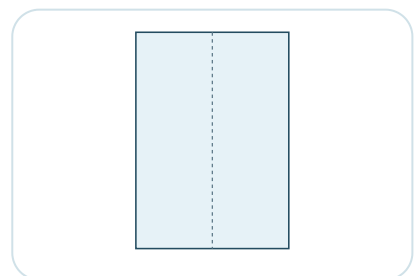
1. Before



2. Fold



3. After



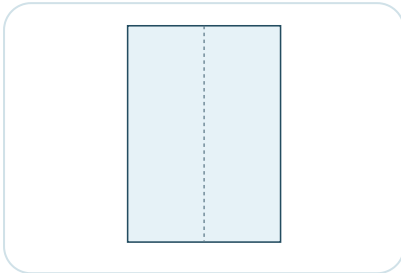
Fold, press flat, then reopen.

Place A4 upright. Fold lengthwise in half. Reopen.

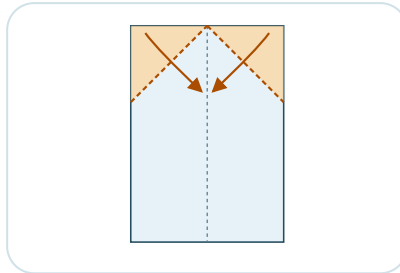
Step 2

Fold the corners

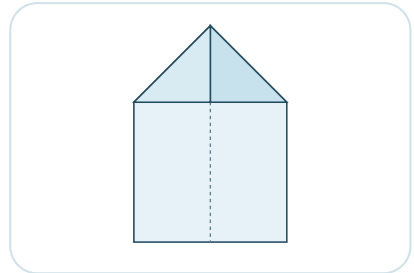
1. Before



2. Fold



3. After

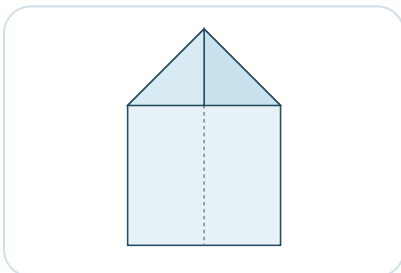


Fold both top corners to the centre crease.

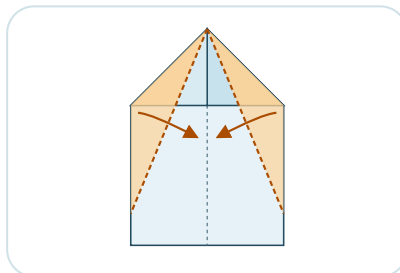
Step 3

Fold the edges

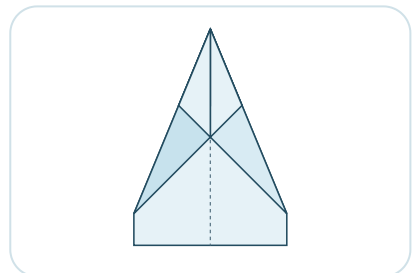
1. Before



2. Fold



3. After

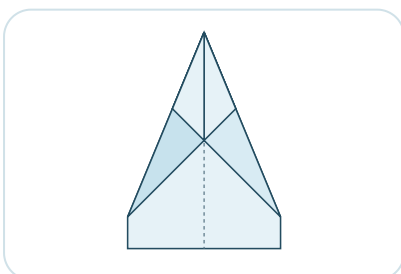


Fold the sloping outside edges to the centre again.

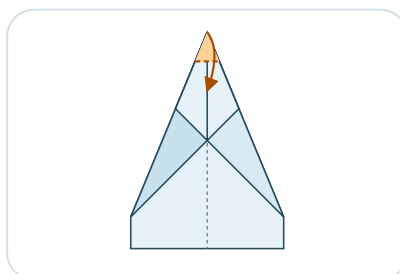
Step 4

Fold the tip

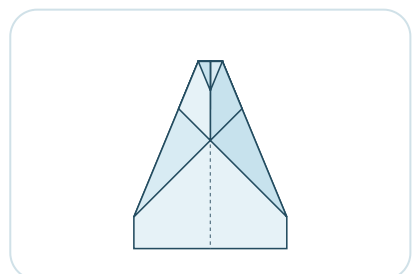
1. Before



2. Fold



3. After

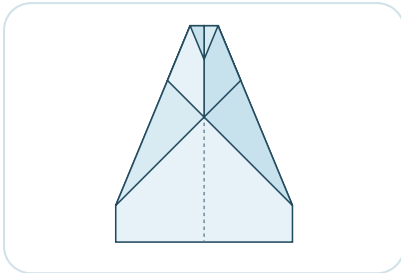


Measure 4 cm down from the tip. Fold the tip downward across that line. It now sits 8 cm below its old position.

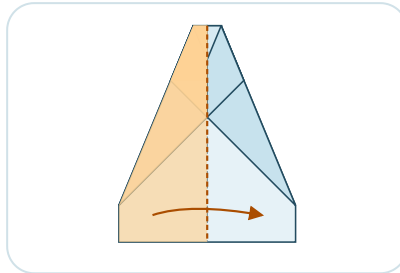
Step 5

Close the body

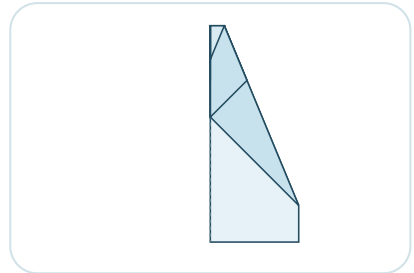
1. Before



2. Fold



3. After

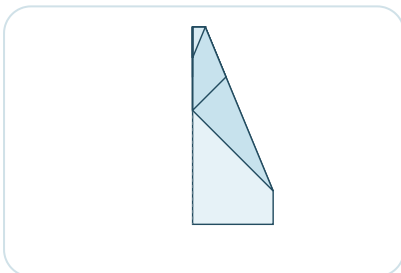


Close lengthwise; the folded tip stays inside.

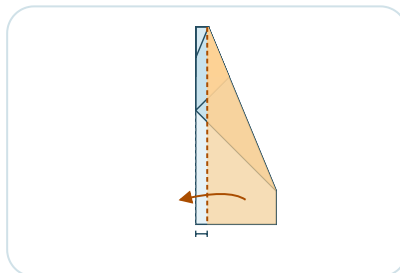
Step 6

Broad wing

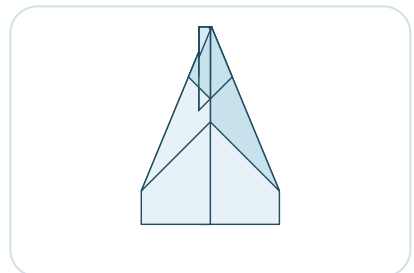
1. Before



2. Fold



3. After



Grip: 1.5 cm

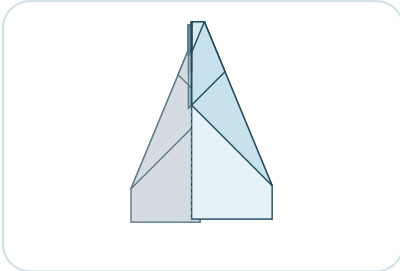
Only the top wing is folded. The second wing is still unfolded underneath.

At the bottom, measure 1.5 cm out from the closed centre fold. Fold the upper half, including all its paper layers, down along a parallel line; the narrow strip stays as the grip.

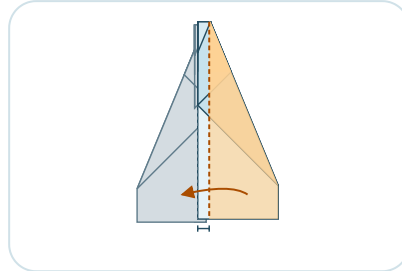
Step 7

Match the other side

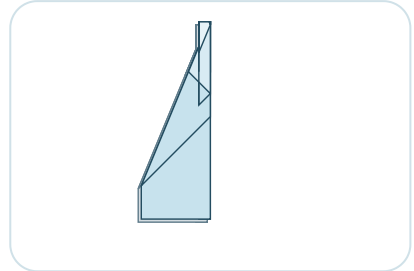
1. Before



2. Fold



3. After



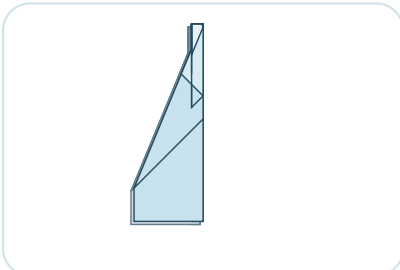
Grip: 1.5 cm

Turn over first: the unfolded side faces up. The first wing stays underneath. Turn the paper over like a book page. Fold the second wing to match.

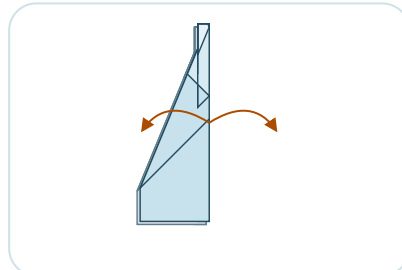
Step 8

Lift slightly

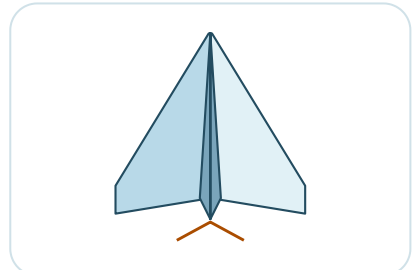
1. Before



2. Open



3. After



Open both wings; keep the narrow grip closed. Open the wings slightly upward. Push gently forward.

Upright means the short edges are at the top and bottom. The centre crease is the long fold in the middle. The grip is the narrow part underneath the wings. Measure it sideways from the closed centre fold. Parallel means the new line stays the same distance from the centre fold all the way along. Press creases flat with your finger.

If the flight needs work

First check: are both wings folded alike and open? Lift the left and right wings just slightly. Try several gentle launches. Change only one thing at a time; no model flies identically every time.

Folding principle checked against: NASA: Wingin' It – Basic, Dart und X-Plane. Our variant of the X-Plane principle: a 4 cm tip fold and broad wings. Try its flight behaviour for yourself.

Compare three flights →