

SIMPLE MAMA BUG air surf glider (NOT for A4 paper)

Instructional video, detailed text information and links to more patterns at sciencetoymaker.org Look for the air surfing section.

You should use .7 mm foam for the Mama Bug, not the thinner .5 mm foam used for the smaller gliders. The Mama Bug is more efficient than smaller gliders (even with thicker foam) but it's a little more advanced, so I think you should build and fly a Baby Bug first.

This version does not have vertical flaps on the wing tips for better turning. There is another pattern with vertical flaps. You can also retrofit the vertical tips, cutting and folding them into an existing glider as per the video. There is also another pattern at sciencetoymaker.org for A4 printers (takes 2 sheets).

Select NO SCALING when printing.

Front Angle
(camber)

back angle
(elevon)

cut close

cut close

Tape here

Tape here

**SIMPLE MAMA
BUG GLIDER**

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trailing edge

trailing edge

trailing edge

front camber

stop

stop

Tape here

Tape here

fold up carefully
elevon

5 cm between lines
SCALE CHECK
2 inches between lines

fold up carefully
elevon