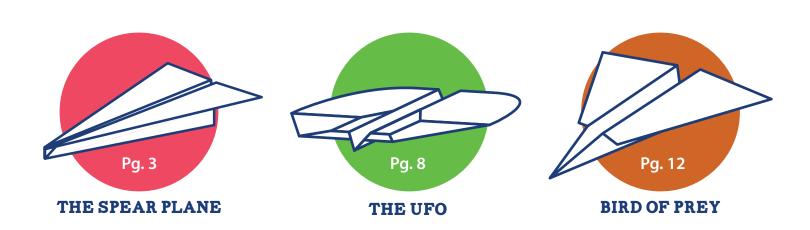






FLIGHT MANUAL



WHAT MAKES A PAPER AIRPLANE FLY?

GRAVITY

is the force that pulls everything toward the center of the earth. It is why when we jump up we fall back to the ground. In order to fly, a paper airplane needs to use some different forces to beat gravity and stay in the air.

THRUST

is a source of power and motion. When you throw the airplane, your arm is the thrust.

LIFT

is created when the air below the airplane is pushing up harder than gravity is pulling down. The most lift is created from the wings of the plane.

DRAG

is the force that pushes against the plane as it moves forward through the air. The shape of the airplane will create less drag if it is a narrow at the front.

DID YOU KNOW?

A long flight happens when these four forces —gravity, thrust, lift and drag — are balanced.

A plane design that has little lift and drag (small wings and a pointed shape) needs more thrust to fly.

A plane design that has more lift (larger wings and wider shape) needs less thrust.

Try out different shapes and designs to find your favorite balance!

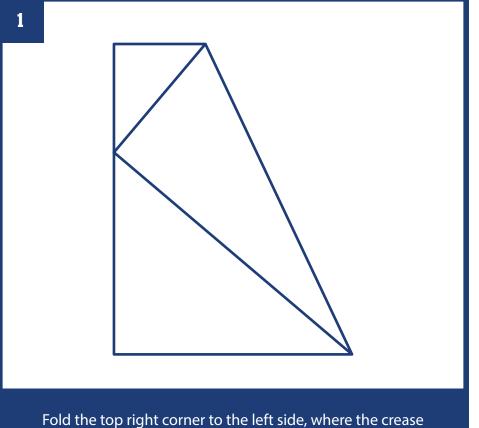




This model eats distance for lunch.
The flight path will shoot into the air like a spear.

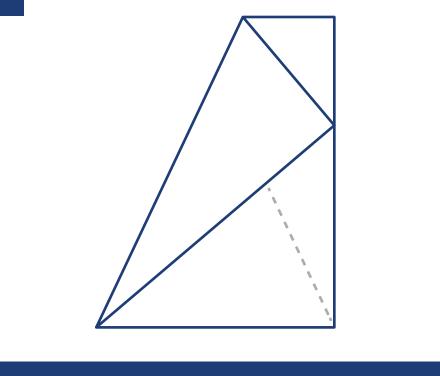
Grey Lines are previously folded sections



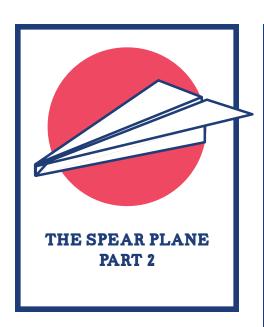


begins at the bottom right corner.

2

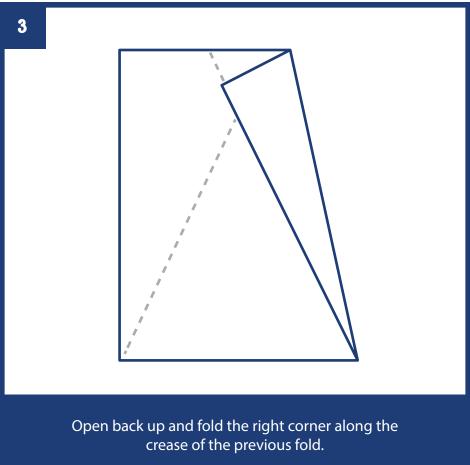


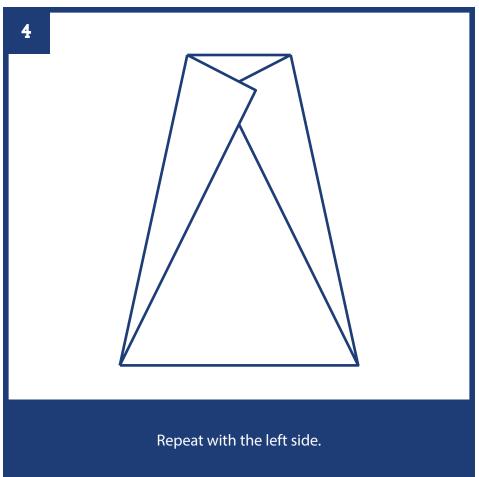
Open the sheet back up and repeat the same step with the left corner.



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The flight path will shoot into the air like a spear.



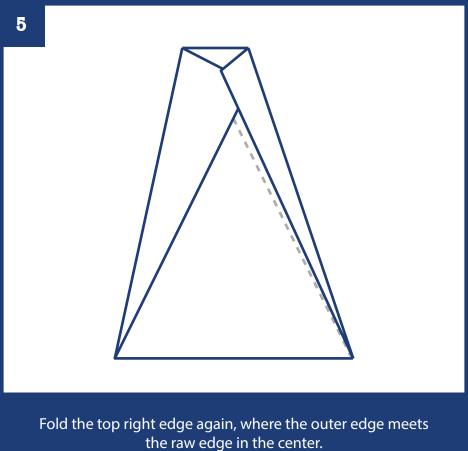


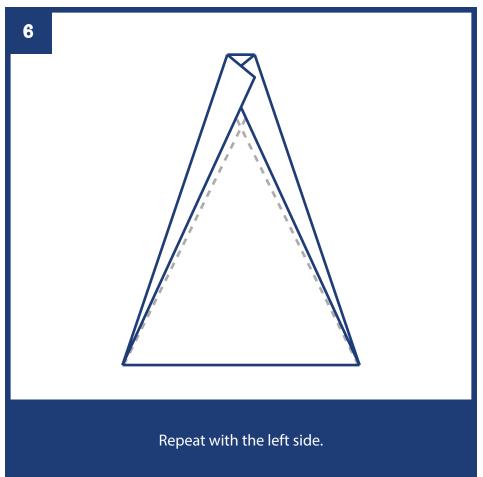


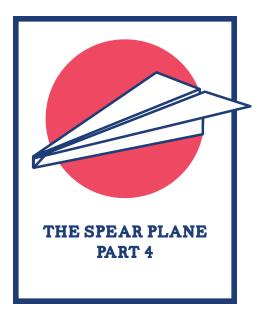


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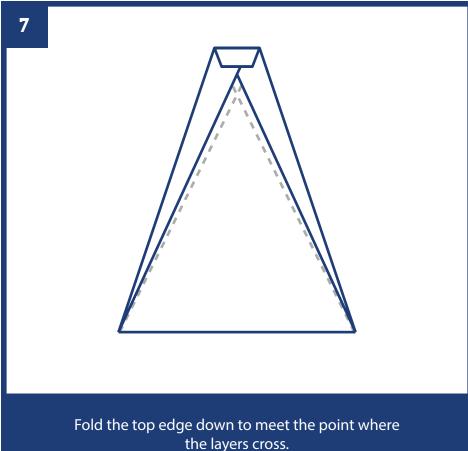


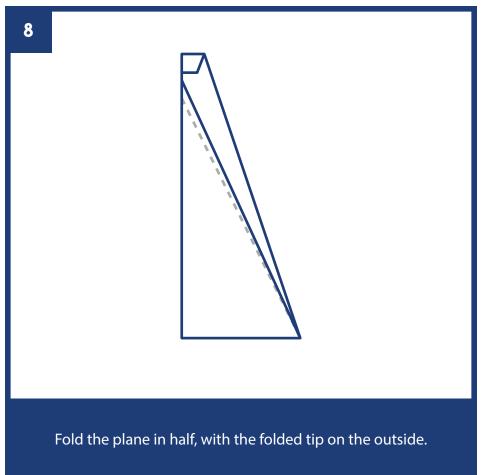




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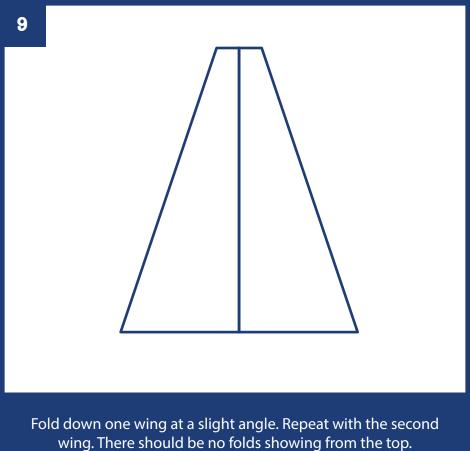


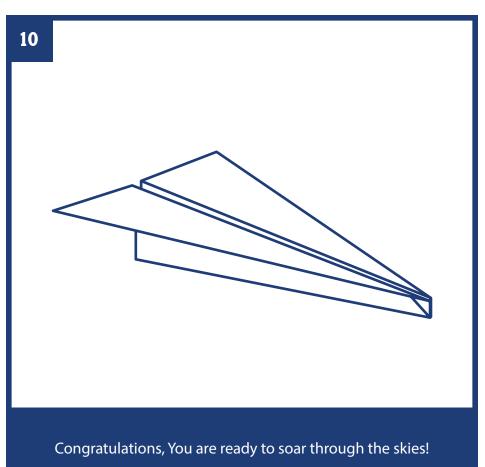




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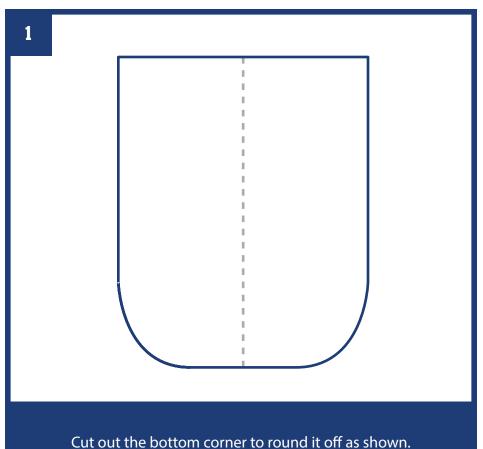


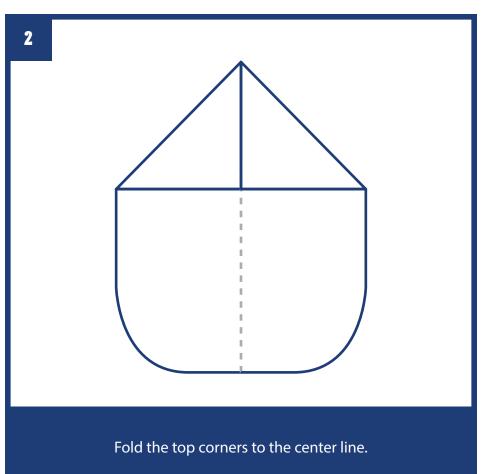




This model is from a different galaxy. Its shape allows it hover through the air just like a UFO.



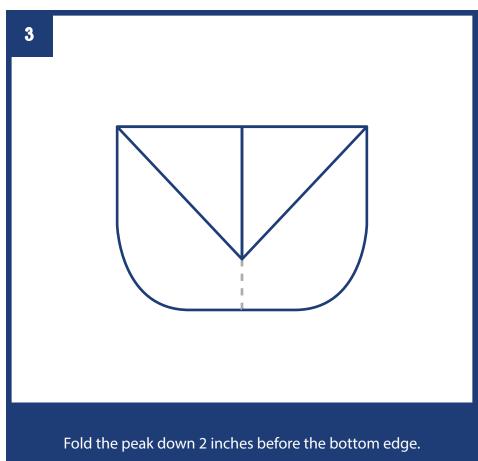


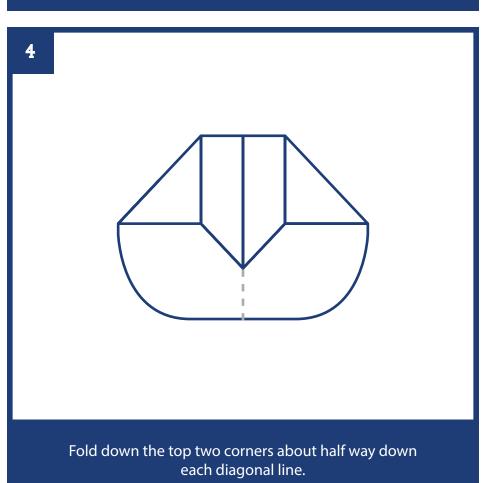




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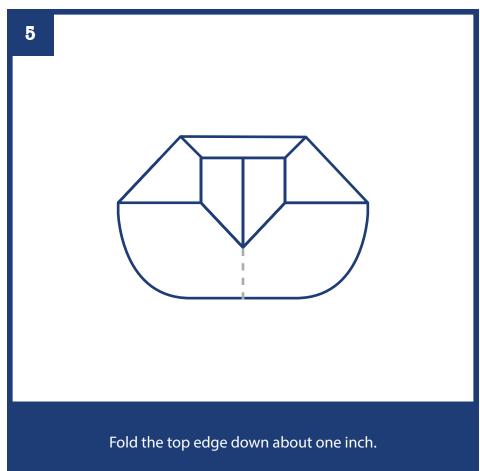


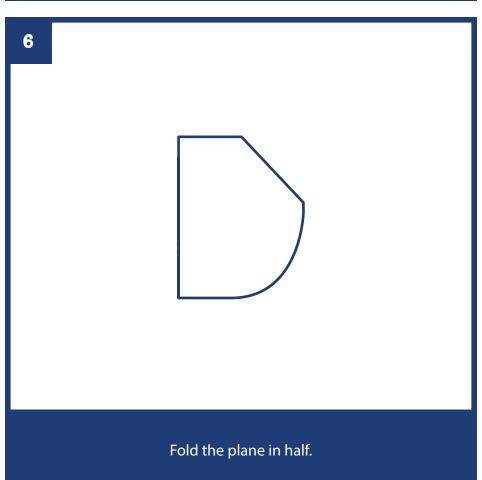




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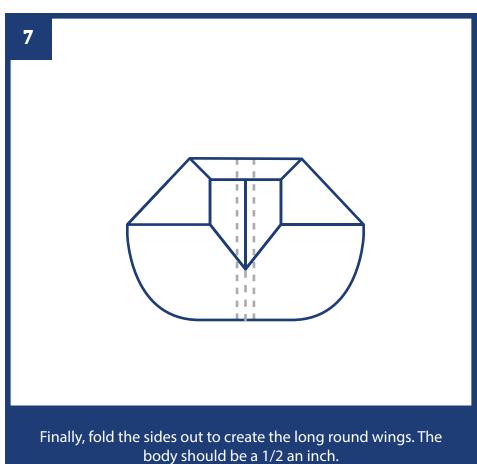






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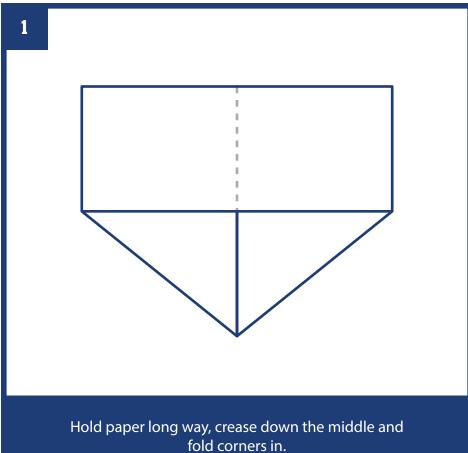


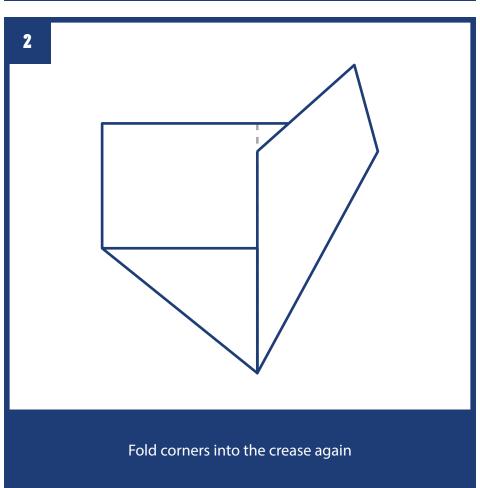




This model is quick to attack. It flies gracefully and has a precision strike.



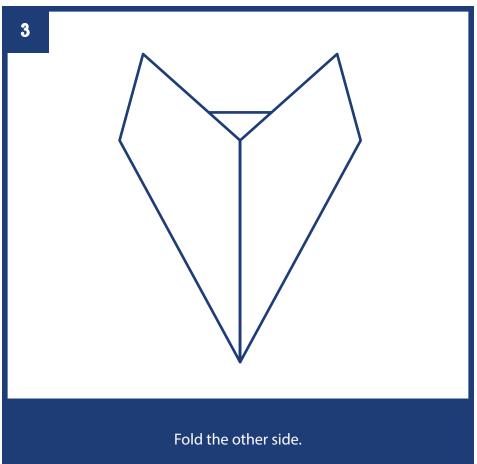


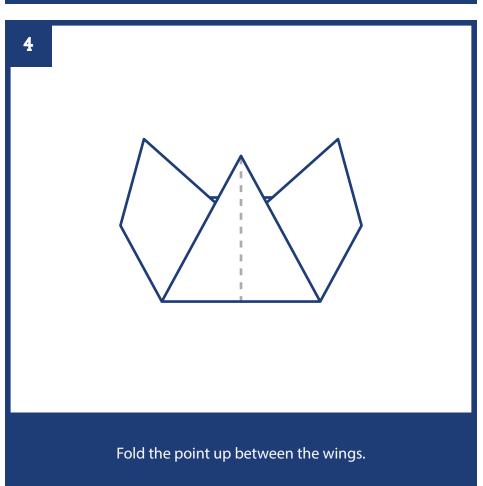


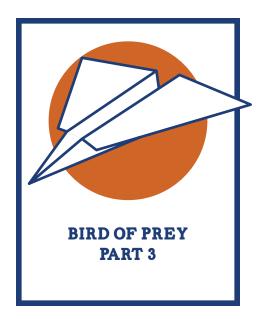


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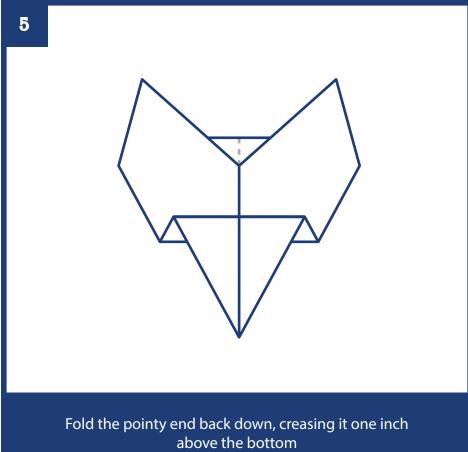


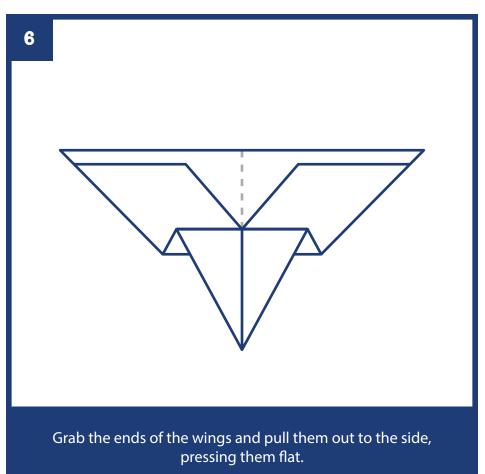


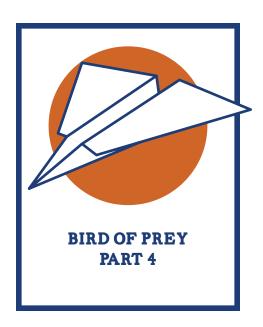


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