



GOAL GETTERS CHALLENGE

AVIATION & STEM ACTIVITIES
GRADES 3–5 (UPPER ELEMENTARY)

Pilots use curiosity, science, and math to fly safely. Complete both challenges below. When finished, **upload your completed worksheet PDF to the Google Form.**

Challenge 1

Curiosity Takes Flight

Asking questions helps us learn.



David Lanum earned his first pilot's license by being curious and asking lots of questions. Pilots talk to air traffic controllers in the tower to get instructions before they take off and land.

Your Challenge:

Choose something that flies — an airplane, helicopter, bird, or rocket. Write down 3 questions you have about how it flies. Then pick ONE question and try to find the answer (ask an adult, read a book, or look it up).

My 3 questions:

1. _____
2. _____
3. _____

The question I explored:

What I found out:



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Challenge 2

Be a Test Pilot

Experiments help us learn about physics.



Four forces act on every airplane: lift, weight, thrust, and drag. David practiced flying by doing "touch-and-go's" at small airports to get better and better.

Your Challenge:

Build two paper airplanes with different designs. Fly each one three times and measure how far it goes.

Throw	Airplane 1 distance	Airplane 2 distance
1		
2		
3		

Which airplane flew farther overall?

Why do you think that design worked better?
