

Paper Airplane Science

Make your own paper
airplanes and then put
them to the test!



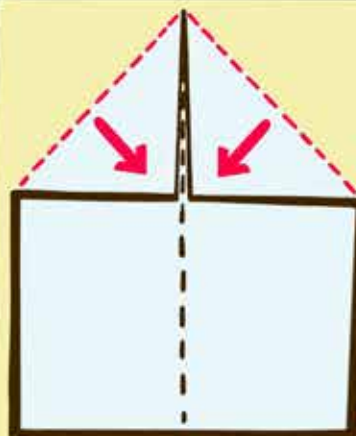
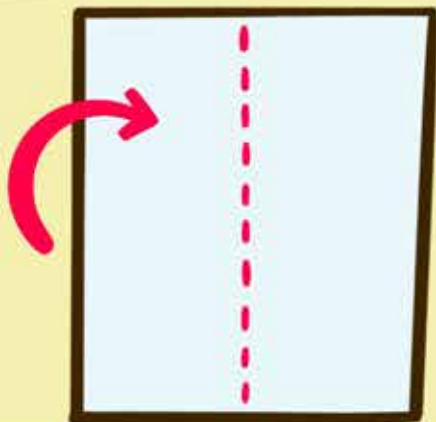
Here's what's in this kit:

- Paper airplane instructions
- Experiment to try on your own
- Scientific method worksheet
- Paper airplane template

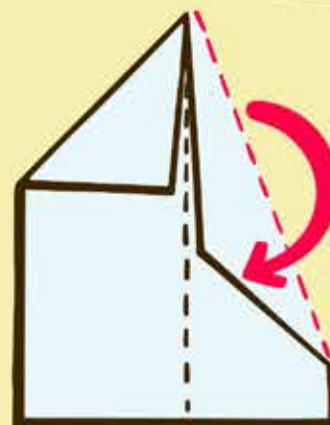
Make Your Own Paper Airplane



STEP 1: Fold a 8.5 x 11 sheet of paper in half.

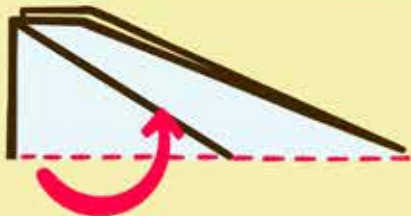


STEP 2: Fold corners.



STEP 3: Fold in the two sides.

STEP 4: Flip over and fold in half.



STEP 5: Fold down flaps to make wings.



CHALLENGE 1:

Find other paper airplane designs and templates to try. The classic one, shown here, is often called the Dart. You can also find video tutorials on YouTube.

CHALLENGE 2:

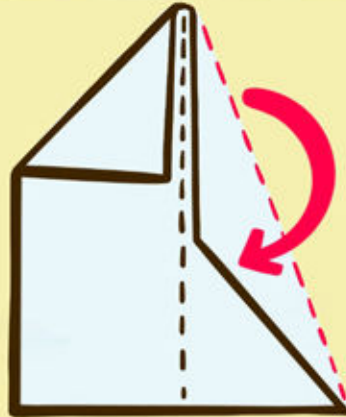
Create your own paper airplane. Don't use a template or design. Start folding until you come up with your very own model.

Optional: Decorate Your Paper Airplane!

The Paper Airplane Experiment

Step 1

Make a classic paper airplane, using the instructions given.



Step 2 Now make an additional 2-3 paper airplanes to fly and test. They should be different sizes and styles. Guess what will happen with each one. Modify the classic design or create your own.

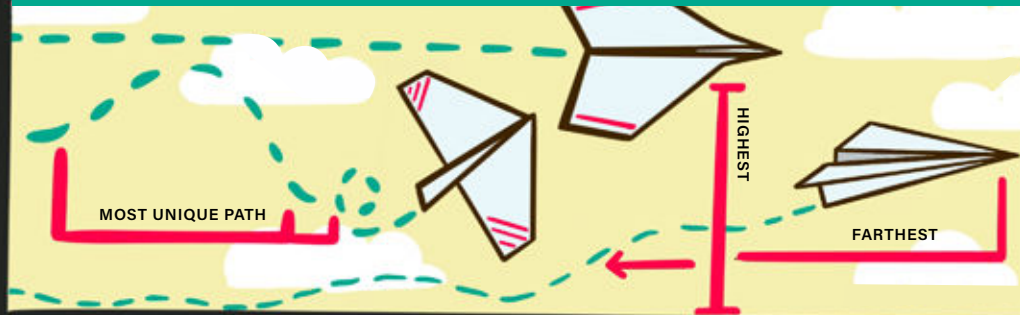


Step 3 Use the scientific method worksheet to predict what will happen when you fly the different paper airplanes.



Step 4

Fly your airplanes and test them in all sorts of ways. Which plane goes the farthest, the highest, or stays in the air longest? What other questions can you think of?




Step 5

Write down what you learned. Document distance, height, and anything else you notice.

NOTES



The Scientific Method

1  **Question:** What do YOU want to figure out?


2  **Research:** Read, gather, and learn as much as you can.


I learned ...

I discovered ...

I read ...


I found out ...

3  **Hypothesize:** Take a guess or make a prediction!

4  **Experiment:** Try it one way. Then try it another way.


Experiment 1:

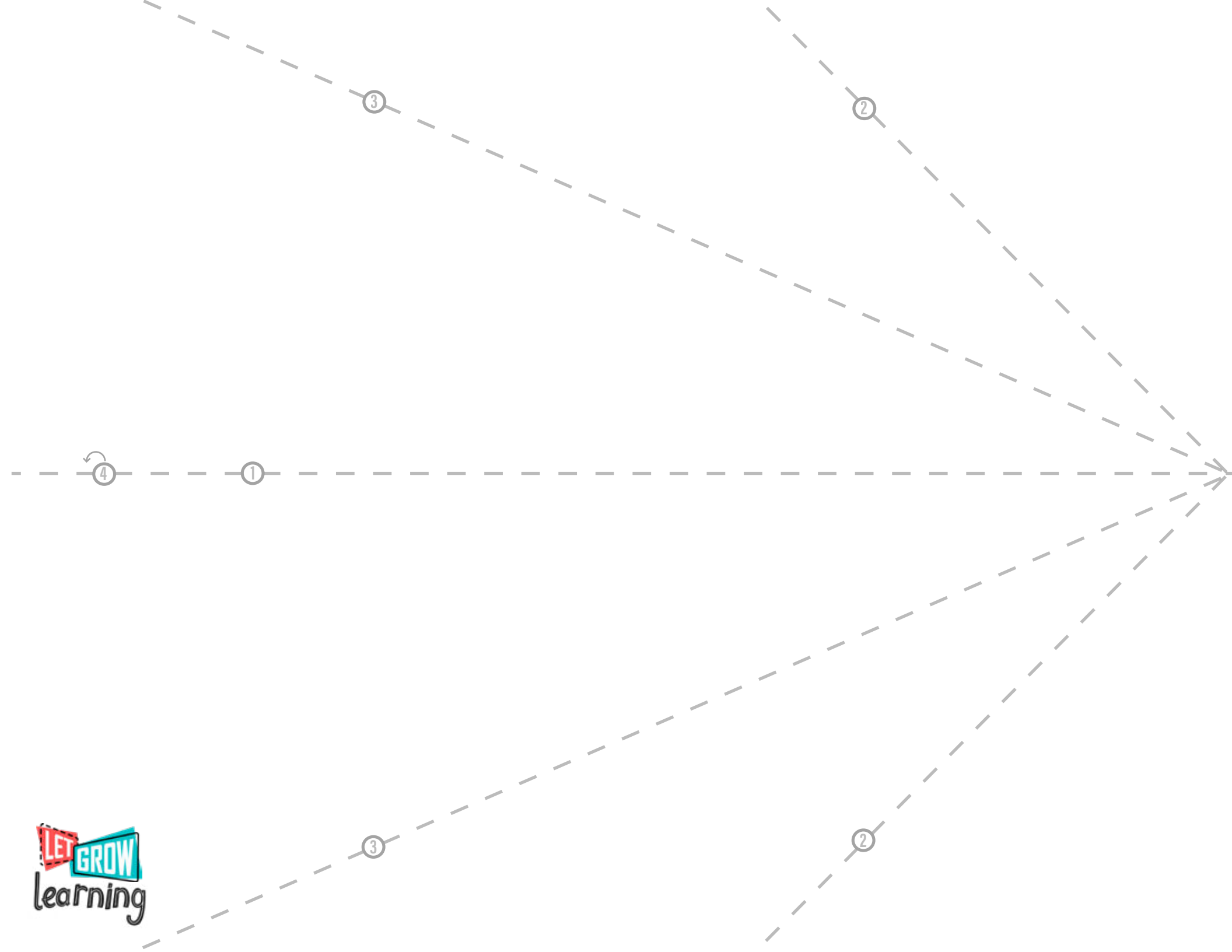
Experiment 2:

5  **Analyze:** Write about what you learned.

Here's what I know now:

Here's what I'm still not sure about:

6  **Conclusion:** Share what you learned.



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