Science and Engineering Fair

Canyon View 2025/2026

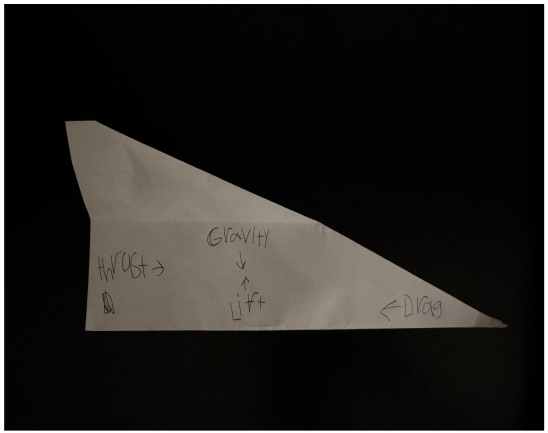
Making paper airplanes out of 3 different types of paper to see which one flies further

Introduction

There are different kinds of forces that make the paper airplane fly.

1. **Gravity makes it go to the ground.**
2. **Drag is the air going over the airplane.**
3. **Lift is the air pushing it up.**
4. **Thrust is pushing the airplane forward.**

https://www.smallstepforstem.com/paper-airplanes/



Question/Problem and Predictions

Which airplane goes the furthest?

My prediction is that the printer paper will go the furthest because it isn't too heavy or too light.

Investigation Methods & Procedures

Independent Variables: We used different types of material to make our different kind of paper airplanes.

Dependent Variables: We are measuring how far they go.

Control Variables: They are all dart design paper airplanes. They are shaped the same.

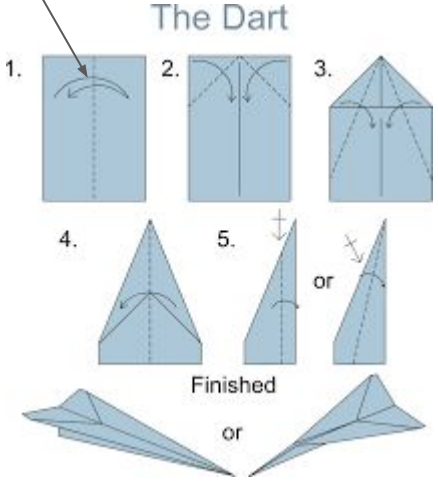
Step 1:Get paper.

Step 2: Make my paper airplane.

Step 3: Weigh the paper airplane.

Step 4: Fly the paper airplane.

Step 5: Measure how far it goes.



Results and Data

This is a presentation of data tables and/or graphs showing relevant trends or patterns (or lack thereof) that students discovered in their investigations. Bulleted summarized statements clarifying trends or observations are encouraged.

Material	Weight	How far it goes
Aluminum Foil	3 grams	54 in
Printer paper	5 grams	69 in
Watercolor paper	19 grams	108 in

Discussion and Interpretation

I noticed that the heaviest one was the furthest and that the other ones were light.

Implications and Ideas for Future Research

I learned that sometimes your predictions aren't right. I chose this project because I wanted to try something new!

References

https://www.smallstepforstem.com/paper-airplanes/

https://origami.fandom.com/wiki/Dart_(Paper_airplane)