SCIENCE PROJECT:

WING SHAPE

INTRODUCTION

“How do airplanes fly?”

The reason I chose this project is because I am interested in physics and gravity. My Dad worked in the Navy for 21+ years. While in his time in the Navy he worked on airplanes. My project is about the wing shapes. The flat wing, slightly curved wing , and strongly curved wing.

BACKGROUND

There are 2 forces of an airplane. **Lift** is the force that pushes an airplane up. **Weight** is the force that pulls the aircraft downward because of the force of gravity.

QUESTION/HYPOTHESIS

01

Question

How does the shape of the wing affect the amount of distance it produces?

02

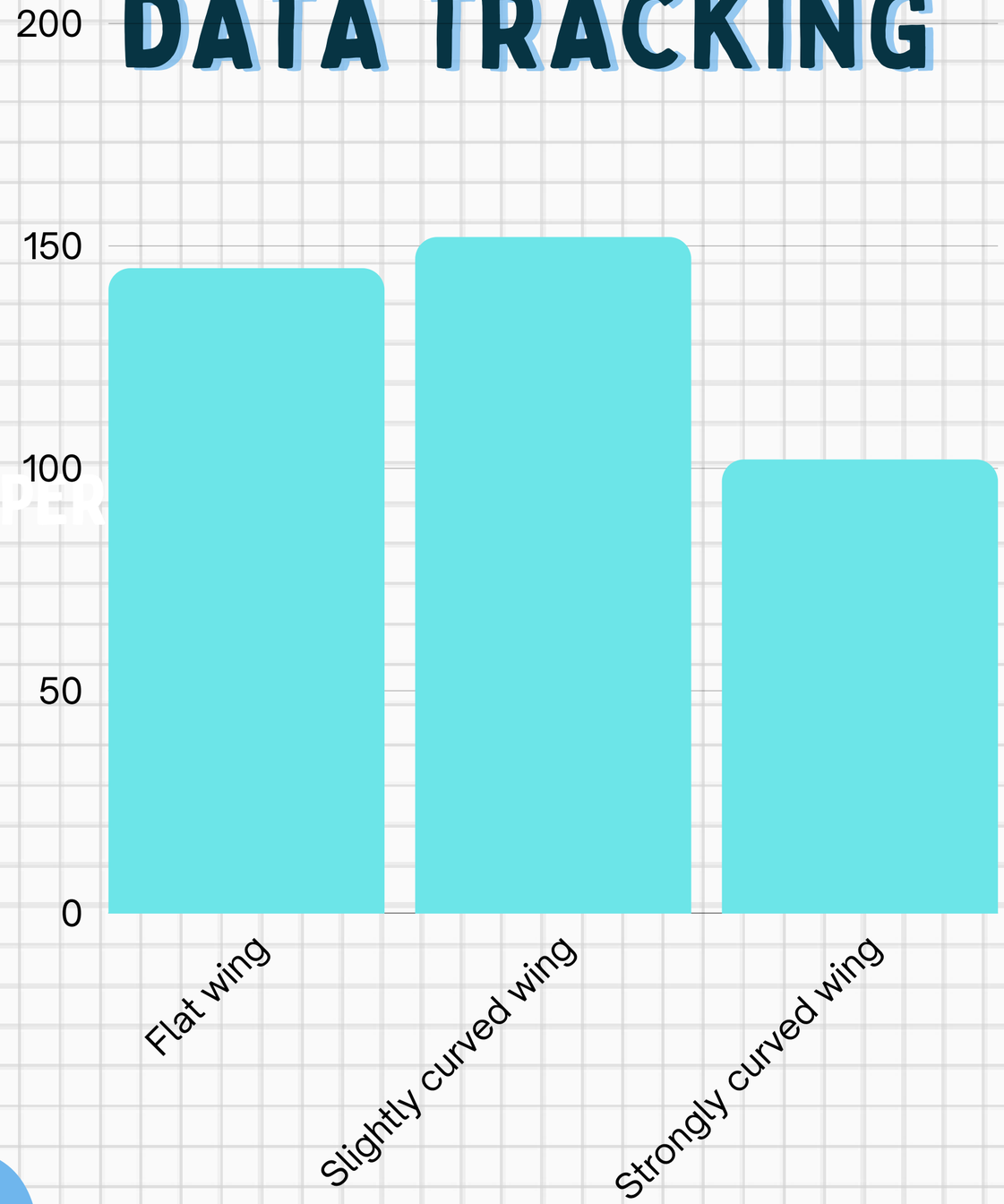
Hypothesis

If a wing has a curved top and a flat bottom then it should produce more distance.

PROCEDURE

1. Gather materials: Foam board, box knife, hot glue gun, tape measure, and some type of medium sized rope.
2. You need to cut out 3 different wing shapes, but all three of them have the same size and the same length.
3. Prepare your distance test.
4. Test each wing 3 times.
5. Put the infromation on a data table
6. Analyze the data table, answer question: which wing flew the furthest and was my hypothesis correct or incorrect?

DATA TRACKING



CONCLUSION

- **What did you learn? What conclusion have you made conducting this experiment?**
  - I have learned that the different wing shapes conduct different lengths and how far they fly.

- **How does your experiment apply to real life?**
  - Well, my experiment applies to real life because there are airplanes and jets with totally different wing shapes

THANK YOU