CALIFORNIA STATE SCIENCE FAIR
2014 PROJECT SUMMARY

Name(s)
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Project Number
J0120

Project Title
Does the Design of a Glider Wing Affect the Distance of Flight?

Abstract

Objectives/Goals
The objective in this experiment was to build two types of gliders; one with a dihedral wing design and one with a straight wing design, similarly launch them and determine which one flew farther.

Methods/Materials
The method in this experiment was to construct both a dihedral and straight winged glider and launch them and measure the distance of flight. The materials used to accomplish this were: various lengths and widths and thicknesses of balsa wood, wood glue, sand paper, modeling clay, tape measure or measuring wheel, Exact-o-knife, paper and pencil to record data.

Results
The results of this experiment were that the straight winged designed glider flew further since it flew in a straight path unlike the dihedral angled glider, which would veer off in various directions.

Conclusions/Discussion
The conclusion was that the dihedral angled glider would not fly as far as the straight angled glider, therefore our hypothesis was incorrect.

Summary Statement
This project set to prove which glider wing design would allow the furthest flight.

Help Received
Partners mother help design the board layout and my dad helped construct the gliders.