



**CALIFORNIA STATE SCIENCE FAIR
2014 PROJECT SUMMARY**

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| Name(s) Christian Rhodes; Cade Whitaker | Project Number 34693 |
| Project Title Does the Design of a Glider Wing Affect the Distance of Flight? | |
| <p style="text-align: center;">Abstract</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> | |
| 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. | |