



**CALIFORNIA STATE SCIENCE FAIR
2014 PROJECT SUMMARY**

Name(s) David A. Maguina	Project Number 34224
Project Title The Effect of Fin Shape on Flight	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals The objective is to determine which of three different fin shapes enable a water-bottle rocket to achieve the greatest altitude.</p> <p>Methods/Materials One water-bottle rocket, 3 different fin shapes attached to the removable sleeves, one launch platform, one air compressor.</p> <p>Results The fin shape that curved below the rocket consistently achieved higher elevations. The smaller fin shape with right angles consistently achieved the lowest altitudes.</p> <p>Conclusions/Discussion My conclusion is that a curved fin shape improves aerodynamics enough to produce greater altitude.</p>	
Summary Statement My project is about discovering the optimal fin design to enable a rocket to achieve the greatest altitude.	
Help Received Mom helped to type this report and display board.	