



**CALIFORNIA STATE SCIENCE FAIR  
2011 PROJECT SUMMARY**

<b>Name(s)</b> Miranda R. Rylee	<b>Project Number</b>  31110
<b>Project Title</b> Does the Number of Fins on a Rocket Affect Its Altitude?	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> My project is to determine if the number of fins on a rocket affect its altitude. I believe a rocket with three fins will gain the most altitude.</p> <p><b>Methods/Materials</b> Six rockets were built with identical size and weight. Each rocket had a different number of fins, zero, one, two, three, four and six fins. Each rocket was launched ten times with the same size engines. The zero and one finned rockets were not launched because it was thought to be too dangerous.</p> <p><b>Results</b> The rocket with three fins acheived the highest altitude of the four rockets that were launched.</p> <p><b>Conclusions/Discussion</b> My conclusion is that the number of fins on a rocket plays an important role and rockets with three fins reach the highest altitude.</p>	
<b>Summary Statement</b> My project was about the stability of fins on a model rocket and the drag caused by those fins.	
<b>Help Received</b> My father helped with the construction and launches of the rockets. My mother helped with the board.	