



**CALIFORNIA STATE SCIENCE FAIR
2008 PROJECT SUMMARY**

Name(s) Thomas M. Hess	Project Number S0211
Project Title High Performance Rocketry	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals I wanted to see what type of rocket motor will achieve the highest altitude in a high performance rocket, testing a low-thrust sustaining burn, or a high-thrust short burn motor.</p> <p>Methods/Materials I used a C6-5 and a C11-7 class rocket motors for the rocket, also used was a "scratch" built rocket with fiberglass construction. A logging altimeter to get the altitude. Also a triangulation measurement device for backup in case the altimeter failed.</p> <p>Results I found that the rocket with the C11-7 flew to 1300 feet and the C6-5 flew to 900 feet.</p> <p>Conclusions/Discussion Based on my experiment, I concluded that my hypothesis of low-thrust sustaining rocket motor was wrong. The C11-7 boosted the rocket to highest altitudes. I did have a few difficulties executing my experiment, and I plan on further research.</p>	
Summary Statement The main idea of my project was to find what type of rocket motor would propel a rocket the highest.	
Help Received	