



**CALIFORNIA STATE SCIENCE FAIR
2012 PROJECT SUMMARY**

Name(s) Cali Mendoza; David Tenney	Project Number S0805
Project Title Using a Weather Balloon Apparatus to Monitor Variables in Space	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals Our objective was to send a weather balloon into space to make observations of key variables that determine how temperature and light change as you increase altitude.</p> <p>Methods/Materials In total we launched 52 weather balloons over the course of 2 school years. All balloons were launched at the same launch site (area) and at a consistent time. All balloons collected data that showed us distance, weather patterns (wind direction, humidity), equilibrium, temperature and light intensity.</p> <p>Results The 2 hypotheses that were validated were: Hypothesis #1 As the weather balloon rises in altitude, there will be a decrease in external temperature. Hypothesis #4 As the weather balloon rises in altitude, there will be a change in direct light.</p> <p>Conclusions/Discussion Our conclusion is that as you increase altitude variables in space change. Our distinct conclusions are that as you increase altitude you decrease in external temperature and increase direct light.</p>	
Summary Statement Our project was to send weather balloons into the upper stratosphere to collect scientific data on distinct weather variables.	
Help Received We would like to thank are teachers, Jim Snyder, and Mr. Bagnell for all their wonderful help and support for without them none of this would have been possible.	