



**CALIFORNIA STATE SCIENCE FAIR
2006 PROJECT SUMMARY**

Name(s) Aaron G. Chen	Project Number J1503
Project Title How Does Temperature Affect the Pitch of a Violin's Strings?	
Abstract Objectives/Goals This experiment specifically tested how temperature affects a violin's pitch. Methods/Materials In the experiment, a perfectly tuned violin was put into a 30 cubic meter room which was heated to the temperatures of 20, 22.5, 25, and 30 degrees Celsius. For each trial, the violin's pitch was measured in cents using a Seiko tuner after an hour. Results In this experiment, as temperature increased, the pitch increased. Conclusions/Discussion From the experiment, temperature is directly related to a violin's pitch.	
Summary Statement My project is about how temperature can affect a violin's pitch.	
Help Received My teacher reviewed and graded all of my written work.	