



**CALIFORNIA STATE SCIENCE FAIR
2010 PROJECT SUMMARY**

Name(s) SavanahRose Castillo	Project Number J1904
Project Title Determining If Temperature Affects the Tune of the Guitar	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My project was to determine whether or not temperature has an effect on the tune of the guitar. I believe that if the temperature is warm enough the tune of the guitar will drop and if the temperature is cool enough it will go higher in tune.</p> <p>Methods/Materials There was one Prime Classical Quart Bass Guitar. One room set to two different temperatures, one at 16 degrees celsius and 32 degrees celsius, at different times. I also used one battery operated tuner to locate how high or low the pitch changed.</p> <p>Results The guitar that was set in a room of a temperature at 32 degrees celsius ended up dropping lower in pitch. After, when the guitar was set in a room at a temperature of 16 degrees celsius it raised higher in pitch.</p> <p>Conclusions/Discussion My conclusion is that temperature does effect the tune of the guitar.</p>	
Summary Statement My project is about trying to determine whether or not temperature has an effect on the tune of the guitar.	
Help Received	