



**CALIFORNIA STATE SCIENCE FAIR
2007 PROJECT SUMMARY**

Name(s) Stella Day; Chevi English	Project Number S0303
Project Title Relative Pitch	
Abstract Objectives/Goals Our project was to find out whether musical background and favorite genres of music affect people's relative pitch. Methods/Materials We had two guitars. (Guitar 1 and Guitar 2). We played the same string on the two different guitars, except Guitar 1 was in tune, and Guitar 2 was tuned down a whole-step. We slowly tuned up Guitar 2 until they thought that the two notes matched, then we recorded the frequency of the note on a tuning box. Results We found that the more musical background someone had, generally, the better their relative pitch. Also, we found that people who most often listened to rock did much better than those who most often listened to rap/hip hop. Conclusions/Discussion We believe that people with more musical background did better, because it is possible to train the ear to hear musical notes better. Also, we think that the reason people who most often listened to rock did so much better than those who listen to rap/hip hop, is that rock focuses more on melodies, harmonies, etc., where hip hop tends to focus more on the beat and rhythm.	
Summary Statement We tested relative pitch.	
Help Received Used father's equipment, father provided research materials (books).	