



**CALIFORNIA STATE SCIENCE FAIR
2005 PROJECT SUMMARY**

Name(s) Nicole M. Rothschild	Project Number J0332
Project Title Are Musicians In Their Right Mind?	
Abstract Objectives/Goals My Project tested to see the brain type of musicians. My hypothesis stated that musicians would be left brained because of the left brain functions used to be a musician. Methods/Materials 165 people were used in this test ranging from ages 11-14. Those people were then broken down into 3 categories: Non-musicians, vocalists, and instrumentalists. A written test consisting of pictures and phrases was used to find their brain type, along with a survey to reduce the variables. Results It was found that 54% of the general population of 11-14 year olds was left brained. 31% was right brained and 15% was balanced. The instrumentalists were 46% left brained, 31% right brained, and 23% balanced. The vocalists were 40% left brained, 40% right brained, 20% balanced brain Conclusions/Discussion The instrumentalists were less left brained, and more balanced brained when compared to the general public. Surprisingly, the vocalists had an even more dramatic result. As a group, they were equally left and right brained, however, when compared to the general public they were far more right brained. The vocalists demonstrated this the most because they were not utilizing successive physical coordination like reading music, the procession of their fingers and other actions needed to make a sound out of the instrument. This proves that music does affect the mind and does make you more creative or right brained, which proves my hypothesis wrong.	
Summary Statement This project determines if being a musician affects right and left brain functioning.	
Help Received Mother helped cut posterboard, buy supplies and drive me to the fairs.	