



**CALIFORNIA STATE SCIENCE FAIR
2012 PROJECT SUMMARY**

Name(s) Jayden Q. Lotz	Project Number J0721
Project Title Roses Are Red and Violets Are Blue	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My project was to determine if elementary, junior high, or high school students could complete a Stroop Effect test with the fewest errors and with the quickest time.</p> <p>Methods/Materials Three Stroop Effect tests were created with nine words each. The first test consisted of nine colors printed in black ink; the second test had nine colors printed in the same color as they are read aloud; the third test had nine colors printed in a different color that they are read aloud. I then tested elementary, junior high, and high school students after reading to each of them specific instructions. On the third test the student was timed and their errors were counted.</p> <p>Results The elementary students had the fewest errors on average, and the high school students had the quickest time overall. The fastest time without any errors came from the junior high, however.</p> <p>Conclusions/Discussion My conclusion is that outlying times and errors can change the average and outcome. Students from each group had outlying times and errors and changed the results. Human error and carelessness plays a role in the results and outcome of the project.</p>	
Summary Statement This project demonstrates the Stroop Effect and how well elementary, junior high, and high school students can complete a test with minimal errors and a quick time.	
Help Received Transportation from Dad; Mom and Stepdad helped with design of board	