



**CALIFORNIA STATE SCIENCE FAIR
2010 PROJECT SUMMARY**

Name(s) Mary A. Flemming	Project Number J0609
Project Title Does Rearranging the Letters in a Word Affect a Reader's Fluency and Accuracy?	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My objective is to see if rearranging the letters in a word affects the readers fluency and accuracy.</p> <p>Methods/Materials Human subjects were randomly picked in two age groups, Minors (7-17) and Adults (18+). 50 subjects were tested in each age group, for a total of 100 trials. The reader was asked to read a paragraph where the letters were rearranged. The subjects accuracy and fluency were measured.</p> <p>Results 100% of the Adults age group (18+) and 90% of Minors age group (7-17) could read the test material. The Minors age group (7-17) achieved an average amount of 10 mistakes, while the Adults age group (18+) had an average of 4 mistakes. The Minors age group (7-17) had an average time of 1 minute and 09 seconds while reading the test material, while the Adults age group (18+) had an average time of 1 minute and 04 seconds.</p> <p>Conclusions/Discussion The Adults age group (18+) achieved the 100% of the people who could read the test material, the least amount of mistakes and the least average amount of time. The Minors age group (7-17) was not as successful as the adults.</p>	
Summary Statement The Adults age group (18+) achieved the 100% of the people who could read the test material, the least amount of mistakes and the least average amount of time. The Minors age group (7-17) was not as successful as the adults.	
Help Received Mrs. Luckin to proofread my work and mom and dad to help me gather the subjects I needed to complete my project.	