CALIFORNIA STATE SCIENCE FAIR
2004 PROJECT SUMMARY

Name(s)
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Project Number
J0304

Project Title
The Stroop Effect

Abstract

Objectives/Goals
We observed the effect of age and gender on an individual's performance on the the Stroop Color and Word Test

Methods/Materials
In our experiment, we tested four different age groups of both male and female from elementary school, middle school, high school, and senior citizens (age 60 and older). We used standardized Stroop Color and Word Test and administrated it to each subject. On the first page they were asked to read the name of 100 color names as fast as they can. On the second page they were asked to state the color as it appeared on the paper. On the third page the subject was asked to tell the color of the words and ignore what the word reads. They were given forty-five seconds for each test and their score was recorded.

Results
The results of our experiment indicated that the high school females scored the best on the entire Stroop Color and Word Test. However the results of high school females were not significantly different from high school males. Thus, leading us to believe that individuals of both genders tend to gradually improve their results on the Stroop Effect as they grow older. Another significant result was overall low score of older age males as well as females. Surprisingly, the elementary males did better than the females and the overall test results were similar to the test results of old age males and females.

Conclusions/Discussion
We discovered that Interference decreases as age and education grows, then it increases greatly in older test subjects

Summary Statement
Our test investigated age and gender's effect on the Stroop Color and Word Test.

Help Received
Mr and Mrs. Haider both explained the subject and helped provide information on the topic, Mr. and Mrs. Hoffman helped by giving wisdom and excellent advice and Mr. and Mrs. Butler helped with the setup of the board