

CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
Mary A Flemming	Å
Iviary 7., Freining	
Project Title	31221
Phonics vs. Whole Words: The Effects of Rearranging the Latters in a	
Word	
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Abstract	
Objectives/Goals S	
I am determining which the brain would use more when confused by rearrange Word Language I will determine if rearranging the letters in a word affects a r	words, Phonics or whole
normal pace, without mistakes.	addit ability to fead at a
Methods/Materials	7
Explain to the human subject what they will be asked to do. (The subject must	read the test paragraph
paragraph at all 2) their accuracy 3) their fluency 4) whether they read using the	could be read the test
Language reading.)	
Materials used:	
Stopwatch Printer	
Computer with 'Microsoft Office'	
100 human subjects	
A paper with the rearranged paragraph on it	
Page protectors Recording journal/data journal	
Results	
My hypotheses stated that the Minors would read using Phonics more and the Adults would read using	
Whole Word more, both age groups would have the same amount of people who could read the paragraph, the adults would make best paistakes, and the Minors would be slower when reading. Overall	
both age groups used Whole Word more, but the Marors did use Phonics more. The Minors had 5% of	
the people that couldn't read the paragraph, of which I didn't use their data to analyze the rest of my	
results. The Adults did make less mistakes, but I proved that Phonics caused more mistakes overall.	
While completing my project found that is much as we may be taught to read using Phonics when we	
are younger, as we get older we use Whole Word Language and eventually Phonics is useless.	
Summary Statement	
To determine frear anging the letters in a word affects a reader's ability to read	d at a normal pace, without
mistakes in the chosen reading system.	1
Help Received	