



**CALIFORNIA STATE SCIENCE FAIR  
2010 PROJECT SUMMARY**

<b>Name(s)</b> <b>Alix P. Mahon</b>	<b>Project Number</b> <b>J0620</b>
<b>Project Title</b> <b>How Do We Process Scrambled Words As We Read?</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> The objective is to determine if context, word length or font affects the reading accuracy of scrambled words.</p> <p><b>Methods/Materials</b> Test subjects were given six different paragraphs and fifteen flashcards with scrambled words. Three scrambling methods were used. Test Subjects read one paragraph or one flashcard at a time within a certain time limit.</p> <p><b>Results</b> Changing font did not affect reading accuracy. Reading scrambled words in paragraphs was easier than reading scrambled words on flashcards. Overall, shorter words caused the most trouble while reading.</p> <p><b>Conclusions/Discussion</b> The answer to my original question (How Do We Process Scrambled Words?) is that we can process words both by their shape and in the context of a paragraph. My hypothesis was that the test subjects will be more successful at reading a paragraph than the flashcards. The results from my testing prove my hypothesis correct.</p>	
<b>Summary Statement</b> My project is to see how we process scrambled words as we read.	
<b>Help Received</b> Parents helped with grammar, Mom helped with research, Dad explained and gave examples of variables. Dad helped with calculations/graphs.	