



**CALIFORNIA STATE SCIENCE FAIR  
2004 PROJECT SUMMARY**

<b>Name(s)</b> <b>Anastasia F. Calciano</b>	<b>Project Number</b> <b>J0305</b>
<b>Project Title</b> <b>A Comparison of Perceptual Ability Using Manipulative Tasks in Children With and Without Dyslexia</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> Introduction Statement of Purpose: The purpose of this study is to determine whether children with dyslexia are able to perform a task that does not require reading or writing as well as or better than children without dyslexia. The reason for this exploration is that most academic learning is done through reading and writing. Perhaps in a alternative learning environment where for certain subjects these tasks are less emphasized and manipulative activities using patterns and shapes are dominant then dyslexic children have a better opportunity to succeed. I chose Tangrams as the manipulative activity because they can be used without reading or writing. Investigative Question: Can children with dyslexia perceive patterns and shapes by performing manipulative tasks as well if not better than children without dyslexia? Hypothesis: I believe that children with dyslexia can perceive patterns and shapes by performing manipulative tasks as well as children without dyslexia.</p> <p><b>Methods/Materials</b> Activity: Each child will be given a series of three tangrams. Each tangram will become more difficult than the previous one. The child will be timed to see how long it takes to complete the tangram. The child will then be asked what the picture looks like to him. The child will then be allowed to arrange the tans anyway they wish and give it a name.</p> <p><b>Results</b> TBA Currently compiling results.</p> <p><b>Conclusions/Discussion</b> TBA Currently compiling results.</p>	
<b>Summary Statement</b> The ability of children with dyslexia to do as well if not better than children without dyslexia doing a task that is about perceptual ability without reading or writing.	
<b>Help Received</b> Mrs. Carol Murphy, Licensed Speech Therapist	