



**CALIFORNIA STATE SCIENCE FAIR
2009 PROJECT SUMMARY**

Name(s) Rachelle F. Melvin	Project Number J0616
Project Title Memory and Learning	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My objective is to find out if visual, auditory, tactile, or a combination of these modes will best help students learn and remember. I think that the best results will be from using as many modes as possible.</p> <p>Methods/Materials I used a computer and LCD projector to test the memory of 113 third graders. I made five slide shows of seven pictures each with an interval of four seconds between each picture. I tested the students by showing the first set of seven pictures. At the end of the slide show, the students wrote down as many pictures as they could remember. On Test 2 I read seven words and the students wrote down as many as they could remember. I gave three more tests in the same way. On Test 3 I showed pictures and said the word aloud. Test 4 had pictures and I said the word aloud with the students repeating the word. On the last test I showed the pictures, said the word for the picture aloud while clapping out the syllables, and had the students copy me. After I gave all the tests I calculated the results.</p> <p>Results Tests 1 and 3 had the highest scores. On Test 3 (Visual and Auditory) the students scored an average correct of 5.16 out of 7. On Test 1 (Visual) the average correct was 5.07. Test 4 (Visual, Auditory, and Recite) was 4.89, Test 5 (Visual, Auditory, Recite, and Tactile) was 4.19, and Test 2 (Auditory) was 3.78.</p> <p>Conclusions/Discussion I concluded that the best way to memorize something is to see and hear the information. This is a combination of the visual and auditory modes.</p>	
Summary Statement My project is about determining the best way to memorize information.	
Help Received My mom helped me understand my research, supplied the students and materials, consulted with me on my results, and helped me glue the steps on my display board.	