



CALIFORNIA STATE SCIENCE FAIR 2010 PROJECT SUMMARY

Name(s) Sarah E. Mullen	Project Number J0626
Project Title Do You Comprehend?	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My project was to determine if reading captions on the television would increase one's comprehension.</p> <p>Methods/Materials The materials that I used in my experiment were: six video tapes, two televisions and VCRs, Three comprehension tests, 78 experimental subjects, a pencil and a sharpie.</p> <p>I had two parts in the procedure. The first part describes how I recorded the show with the auditory and caption conditions on to six videotapes, each being a five minute segment. I placed a videotape in to the VCR and record five minutes of a cooking show with captions and no auditory (volume). I would do this two more times with the same condition. Then I would put in another videotape into the VCR and record a five minute segment of the same show but just with the auditory stimulus. Then I compose three comprehension test for each of the three five minute segments of the show. Then I label the three caption videotapes the quotation mark experimental group the quotation mark and the three auditory videotapes the quotation mark control group the quotation mark.</p> <p>On the second part of my procedure, I describe how I test my experimental subjects. I had 37 test subjects watch the first segment of my video, the quotation mark experimental group/captions the quotation mark and gave them the comprehension pertaining to that section. I would do this two more times than average all there scores together to get there average score correct. I then continued to do this for the the quotation mark control group/auditory the quotation mark as well.</p> <p>Results The auditory condition had an average of 64.7 % of test questions correct while the caption condition had an average of 34.7% of test questions correct.</p> <p>Conclusions/Discussion My conclusion showed that of the 41 students tested through auditory and visual/caption conditions, the auditory condition helped students comprehend better.</p>	
Summary Statement My project is about which condition: auditory or captions, will best help students comprehend material that is being show to them.	
Help Received Father helped record shows and set up board; Mother bought necessary supplies, provided me with a great problem,advice and helped set up my board; Mr. Graham's 2nd period and Mrs. Snow's 4th period classes were my experimental subjects; Mr.Graham and Mrs. Snow let me use their classes for my science fair	