



**CALIFORNIA STATE SCIENCE FAIR  
2013 PROJECT SUMMARY**

<b>Name(s)</b> <b>Zoey M. Suggett</b>	<b>Project Number</b> <b>J0416</b>
<b>Project Title</b> <b>Expressions</b>	
<b>Objectives/Goals</b> The purpose of this project is to determine is smiling more "contagious" than yawning.	
<b>Abstract</b>	
<b>Methods/Materials</b> 1. Obtain permissions slips from teacher for class testing 2. Make video compiling pictures of people smiling, laughing and yawning. 3. Set up digital projector and video camera. 4. Welcome each group into the classroom reminds them to sit up straight and enjoy the presentation. 5. Start presentation. 6. Stand off to the side and videotape each group as they watched the presentation. 7. Thank each group of students for participating. 8. Records students reaction in log book	
# Participant # A video that shows various smiles and yawning # Computer # Overhead digital projector # Video camera	
<b>Results</b> In testing 303 subjects for this experiment, 138 of the subject were boys. 112 of the boys smiled while only 72 yawned. When testing the girls with a group total of 165, 127 of them smiled while only 53 of the girls yawned. In the end with all 303 subjects in total 239 of them smiled and only 125 of them yawned. Overall three hundred and three were tested. Only sixty-four of the subjects did not smile. One hundred and twenty-five yawned out of the three hundred and three.	
<b>Conclusions/Discussion</b> The hypothesis of this experiment was that smiling is more contagious than yawning. The purpose of doing this test was to see if humans are more likely to yawn than smile when viewing people yawning or smiling. The emotion of smiling was "hypothesized to be more contagious." the experiment was performed and proven to be that with the average of 78.4% of the subjects were prone to smile rather than yawning. The results proved to a difference of 41.3%. Therefore the hypothesis was proven to be correct. Smiling is more "contagious" than yawning.	
<b>Summary Statement</b> Is yawning or smiling more contagious in boys or girls?	
<b>Help Received</b> My Parents kept me on track and took me to print my graph's and my teacher answered any needed questions.	