



**CALIFORNIA STATE SCIENCE FAIR
2009 PROJECT SUMMARY**

Name(s) Joshua P. Kisbye	Project Number J2113
Project Title Comparing the Effectiveness of Toothpaste Brands on Minimizing Tooth Decay	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My 1st goal was to find with toothpaste worked best at preventing the decaying the soda caused. My 2nd goal was to find out which soda was the worst for teeth.</p> <p>Methods/Materials One (1) Crest cavity protection 6.4 oz tubes of toothpaste One (1) Colgate Whitening 6.4 oz tubes of toothpaste One (1) Aquafresh cavity protection 6.4 oz tubes of tooth paste One (1) Aim cavity protection Four (4) Coca-Cola cans of soda Four (4) Pepsi cans of soda Four (4) Dr. Pepper cans of soda Four (4) A&W Root Beer cans of soda Four (4) Water cans of distilled tap water from the sink Five (5) Oral-B kid#s toothbrushes Two (2) 42 by 23 centemeters metal pans Twenty (20) Wal Mart 16 oz clear plastic cups One (1) pair of commercial tongs One (1) E-Bal triple beam balance scale Twenty (20) Sunnyside Farms grade AA chicken eggs</p> <p>Results Crest was the best on average and worked best against Coca-Cola, but was least effective against water. Aquafresh was 2nd best on average and worked best against Pepsi, but was least effective against water. Colagte was 2nd to worst and worked best against Pepsi, but was least effective against Dr. Pepper. Aim was the worst and worked best against A&W Root Beer, but was least effective against water.</p> <p>Conclusions/Discussion My hypothesis for toothpaste vs. soda was Auqafresh would work best because of the fluoride and other anti-bacterial ingredients. Then Colgate, 3rd Crest, and finally, Aim in that order from best to worst. I based this all on anti-bacterial ingredients. The only part I got correct was I predicted Aim would be the least effective and it was the least effective (210.5544 on average). Another part I got wrong was I predicted Aquafresh would be best, but Crest was the best (253.4844 on average), then Aquafresh (250.558). Colgate came in 3rd instead of 2nd (246.0125). An important observasion I made was Colgate</p>	
Summary Statement I am experimenting to find out which soda prevents tooth decay the best and which one is not as effective.	
Help Received My advisor helped revise my board.	