



# CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

<b>Name(s)</b> <b>Xane-Anthony V. Cherland</b>	<b>Project Number</b> <b>J2009</b>
<b>Project Title</b> <b>Antacid Potency</b>	
<div><div><b>Objectives/Goals</b> Which antacid works best at neutralizing acids? I believe that Equate will work the most. Gaviscon will work the second best and Walgreens will work the least efficiently.</div><div><b>Methods/Materials</b><ol style="list-style-type: none"><li>1. Test tubes</li><li>2. Eye droppers</li><li>3. Grape juice (purple unsweetened)</li><li>4. Lemon juice (fresh squeezed)</li><li>5. 3 different brands of Antacids</li></ol></div><div><b>Results</b> Upon finishing my experiment I found interesting results. The Equate antacid used 3 drops on the first attempt, 2 on the second and 4 on the third. The Walgreens antacid used 6 drops on the first, 5 on the second and 6 on the third. The Gaviscon antacid used 10 drops on the first, 9 on the second and 5 on the third. Due to the random result of 5 for third attempt of the Gavison brand I decided to test each antacid a total of 10 times to get a more accurate result. The Equate brand results were, 4th-2, 5th-3, 6th-5 7th-4, 8th-3, 9th-3, 10th-4 with an average of 3. The Walgreens brand results were, 4th-7, 5th-6, 6th-6, 7th-5, 8th-7, 9th-5, 10th-6 with an average of 12. The Gavison brand results were, 4th-8, 5th-9, 6th-7, 7th-8, 8th-10, 9th-9, 10th-7 with and average of about 8.</div><div><b>Conclusions/Discussion</b> As it turns out, all the glitters isn't gold seeing as how the most expensive liquid antacid took the longest to work properly. As for the Walgreens and Equate brands, my hypothesis was slightly correct, the Equate brand did work best, but the Walgreens brand worked second best instead of last. In conclusion you should save your hard earned money when buying Antacids and check the Active Ingredients before buying them.</div></div>	
<b>Summary Statement</b> Tested three antacid brands to determine which worked the best.	
<b>Help Received</b> My parents helped with the materials I needed.	