



**CALIFORNIA STATE SCIENCE FAIR
2008 PROJECT SUMMARY**

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Project Title
Analyzing and Comparing the Effects of Soda on Teeth

Abstract

Objectives/Goals
The objective is to determine which brand of soda causes the egg to lose the most amount of mass.

Methods/Materials
Twenty-one [21] Wal-Mart clear plastic cups; Twenty-one [21] Sunnyside chicken eggs; Five [5] cans of 12ozPepsi [regular]; Five [5] cans of Coca-cola12oz [regular]; Five [5] Cans of Dad#s old fashioned Root Beer12oz [regular]; Five [5] Cans of Dr. Pepper12oz [regular]; One [1] Ohau's Triple Beam Balance Scale; One [1] Cans of Tap Water; One [1] (43cm) forty centimeters x twenty two centimeters (22cm) Metal Pan.
1.The first step is to purchase 5 cans of Dr. Pepper, 5 cans of Pepsi, 5 cans of Coca-Cola, 5 cans of Dad#s Old-fashioned Root Beer, 21 clear Wal-Mart plastic cups, and 1 can of tap water from the sink; 2.The next step is to layout all the materials; 3.The next step is to put all the Sunnyside eggs into the cups; 4.Weigh the cups; 5. The next step is to poor the Coca-Cola into cups 1-5; 6. Repeat step 4 instead of Coca-Cola poor Pepsi into cups 6-10; 7.Repeat step 5 except poor Dr. Pepper into cups 11-15; 8.Repeat step 5 except with Root Beer into cups 16-20; 9. Repeat step 5 except with water into cup 21; 10.Weigh all cups; 11.Put the cups into the 43cm x 22cm metal Pan; 12.Leave the sodas and tap water with the eggs for 2weeks.
Every 2 days measure the calcium in the egg by putting the cup with soda or water on the triple beam balance scale. On the last day take the final measurements and dispose of the materials such as the eggs, sodas, etc

Results
Pepsi was the 2nd to best on average.(128.52)
Coca-Cola was the 3rd to best on average.(127.82)
Root Beer was the best on average.(138.06)
Dr. Pepper was the worst on average.(125.28)

Conclusions/Discussion
After completeing my investigation, I found out my Hypothesis was partailly correct.(Root Beer was the best, Part wrong:Dr. Pepper was the worst instead of Coca- Cola.) I think kids and adults should watch what thy drink.

Summary Statement
My project is about comparing which soda causes the egg to lose the most amount of mass out of Dr. Pepper, Pepsi, Coca-Cola, and Root Beer.

Help Received
My teacher helped with board revition and graphs. Parent helped cut out all papers.