

Mento City



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epic

1st Grade



Testable Question:

How does the type of soda affect how much gas comes out in a mento reaction?

Prediction:

I think rootber soda will react the most because it has more bubbles and cream than the other ones.



Procedure:

1. Put on goggles
2. Open Rootbeer
3. Put mento tube on the bottle
4. Put 4 mentos in the tube
5. Pull out the mento tube pin
6. Step away from wick ever soda you choose
7. Wait for the eruption to stop
8. Measure how much soda is left
9. Do steps 1-8 with the other sodas

Background:

I chose this project because I saw famous youtubers that inspired me to do it.

In my research I found out that Soda has gas in it and it is called carbon dioxide

**When mentos drop in to diet coke something called nucleation happens becaus the mento brakes the bond of the gas and liquid
Mentos have pits all over them and that is where the nucleation comes from**

This project is important because it will help me learn more about science

Constant Conditions:

Independent Variable: different sodas 12 oz bottles

Dependent Variable: how much soda is left

Constant Conditions:

7 candies

Tube

Size of bottle



Safety - Danger

Wear goggles

Outside only

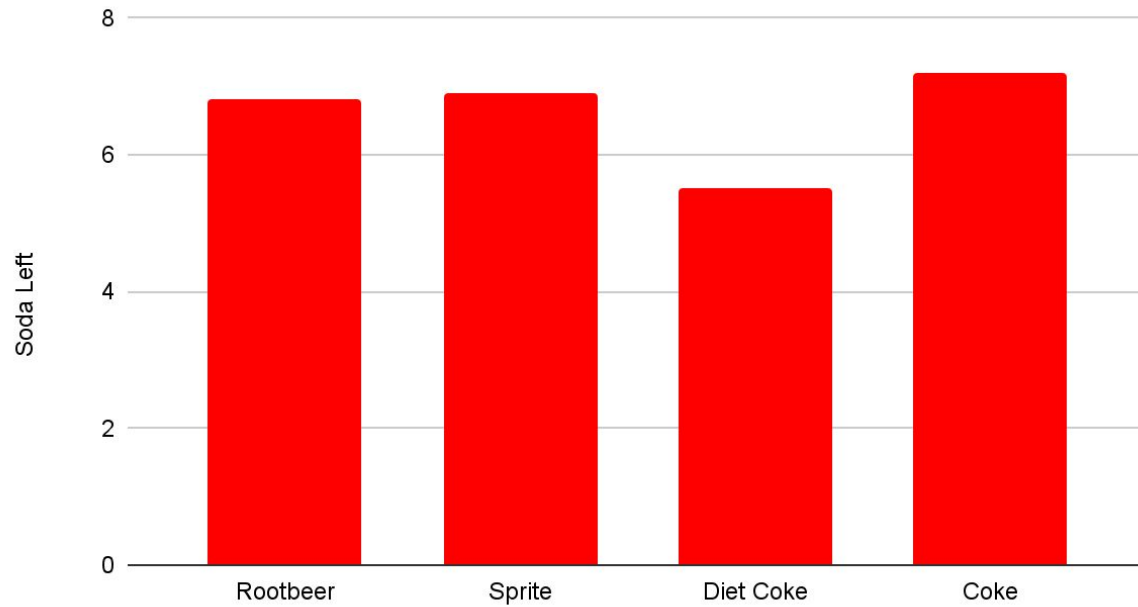
Stay back to be safe

Data and Trials:

Soda (12 oz)	How much is left (oz)			
	Test 1	Test 2	Test 3	Average
rootbeer	6.8	6.7	6.8	6.8
sprite	6.8	6.9	7.1	6.9
Diet coke	5.4	5.8	5.4	5.5
coke	7.2	7.4	7.1	7.2

Graph

Soda Left After Eruption



The Eruptions



rootbeer



sprite



Diet coke



coke

After the Eruptions



Measuring What is Left



rootbeer



sprite



Diet coke



coke

Conclusion and Reflection:

I found out that diet coke had the most reaction because it had less left in the bottle after the reaction

Coke had the smallest reaction

I thought it was going to be rootbeer but when i saw the diet coke it changed my mind

I was surprised that that coke and diet coke were so different.

If i did this project again i would try using other drinks that are carbonated to