SCIENCE NOTEBOOK

The Battle of the Soda

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ABSTRACT

We came across something about soda in a book which made us think of this experiment. Surprisingly, the Pepsi was the fizziest, even though we thought it was going to be the Sprite or Mountain Dew because generally lemon-lime sodas are the fizziest. We ended up cutting the Mentos in half because they weren't dissolving. We originally were going to measure the balloon's width in mm, but we ended up measuring the height in inches.

Question

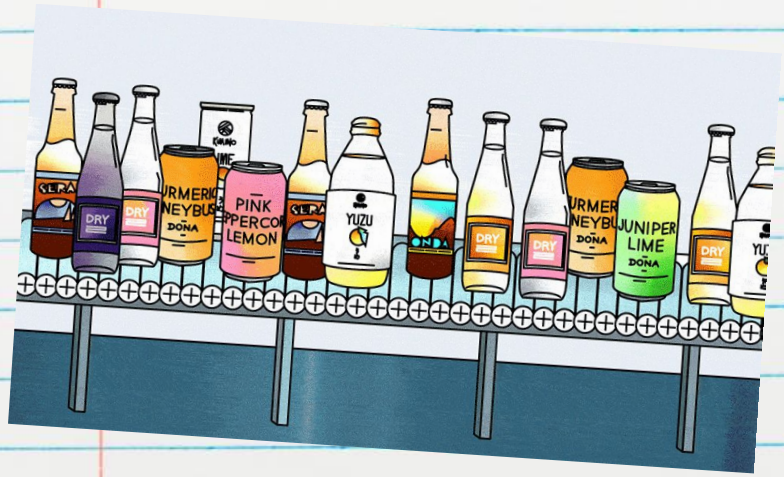
We were wondering which type of carbonated soda is the fizziest. We're going to test this by putting a balloon with mentos in it over an open 20-oz bottle of soda and whichever fills the balloon the most is the fizziest.

(If you notice there is no rainbow thing, we accidentally deleted the slide)

RESEARCH

Our research says that regular Mountain Dew, Sprite, Dr. Pepper, Coca-Cola, and Pepsi are the most carbonated sodas, so we're going to use those.

Rawr :3



HYPOTHESIS

We think the Sprite or the Dr Pepper will fill the balloon the most. We think that Sprite especially because lemon-lime sodas are really fizzy.

MATERIALS

Our materials are:

- 1 20-oz bottle each of Mountain Dew, Sprite, Dr Pepper, Coca-Cola, and Pepsi.
- 5 packets of mint-flavored mentos.
- 5 balloons.
- Measuring tape.

PROCEDURES

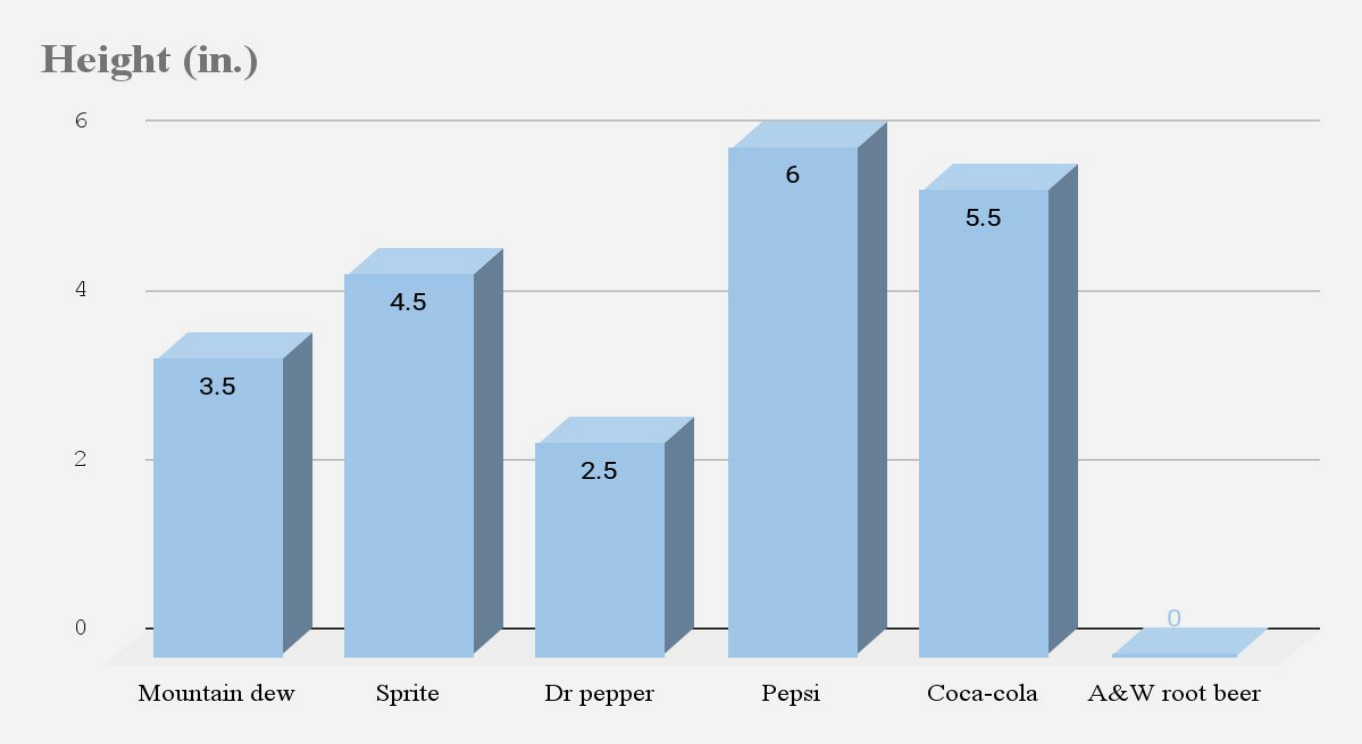
First, you open the mentos and put them in the balloon. Then, you open the soda bottles and but the balloon over the mouth of the bottle. Now, pull the balloon up to let the mentos in and step back! Finally, when the balloon is fullest, Pull it off and make sure not to let any air out of the balloon and measure it.

Finding results: Whichever balloon is the widest in mm wins, if the balloon pops it's an automatic win, and if more than one balloon pops whichever popped first wins.

DATA & RESULTS

The balloon tore for the root beer so it was unusable, the Mountain Dew was 3.5 inches, the Sprite 4.5, the Dr Pepper 2.5, the Coke 5.5, and the Pepsi 6 in. We ended up putting three mentos in because one did almost nothing.

DATA & RESULTS



CONCLUSION

Our hypothesis was wrong. The Pepsi won with 6 inches, even though we predicted the Mountain Dew or Sprite would be the biggest. Also, make sure the tape is tight, because on the root beer it didn't go all the way around, and when the balloon ripped, the air got out. You should also cut the Mentos in half, because sometimes they wouldn't fit in the balloon or wouldn't dissolve.