

The image shows three large-scale nuclear explosions in a flat, open field. The explosion on the left is the largest, with a massive, dark, billowing cloud of smoke and debris rising high into the sky. The middle explosion is slightly smaller, with a similar dark cloud. The explosion on the right is the smallest and most intense, with a bright, glowing orange and yellow fireball at its base and a more compact, bright cloud above. The background shows a clear sky and some distant structures.

**Ulysses's explosive science
project**

17a

PURPOSE & HYPOTHESIS

My purpose: I chose this project because I thought it was a fun experiment to do. It was the first time I did coke and mentos so I decided it would be a great to do it as a science project.

My hypothesis: I think that the coke zero would go the highest with 3 mentos because I believe the more mentos the higher the spay.

RESEARCH

I found out that the diet coke reacts to the rough surface of the mentos which can only be seen with a microscope. The rough surface of the mentos makes it easier for the coke bubbles to form. Since the mentos has a lot of tiny craters the gas in the coke has an explosive reaction when it comes in contact.

I picked coke, diet coke and coke zero because those are the sodas that go the highest with mentos.

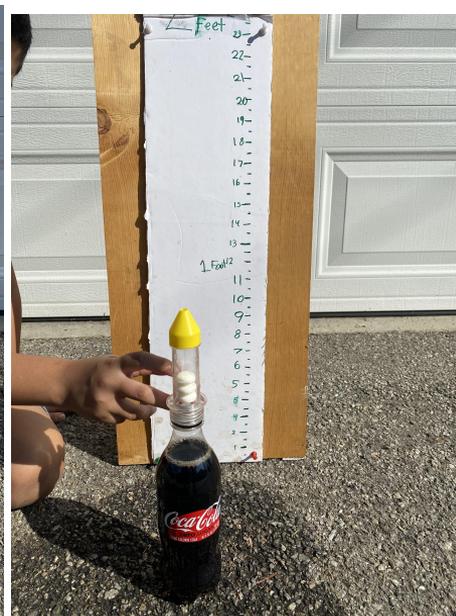
MATERIALS

- Coke
- Diet coke
- Coke zero
- Mentos
- Extreme geyser tube
- 9 foot long ruler.

EXPERIMENT

- You will need a bottle of 16.9 oz of coke or any type of coke. Make sure you go outside.
- Then you put the mentos in to the tube.
- Once the mentos is in the tube unscrew the bottle cap and screw on the tube.
- At last you pull the trigger and the mentos will drop into the coke and soda will shoot into the air.

PHOTOS



Photos 2



ANALYSIS

Experiment with 1 mento

Coke = 70 inches diet coke=6 feet and coke zero=43 inches.

Experiment with 2 mentos

coke=6 feet,diet coke=9 feet and coke zero=11 feet.

Experiment with 3 mentos

coke=2 ½ feet,diet coke=11 feet coke zero=15 feet.

CONCLUSION

According to my experiment coke zero had the strongest reaction to the mentos. Coke Zero went higher than Coke or Diet Coke. When it comes to the mento, the more mentos you add the stronger the reaction will be and therefore the higher the coke will spray.

I also discovered that cold soda does not go as high.

REAL WORLD CONNECTION

If you're in a party and you're serving to six friends, you can make a contraption to serve the coke. You need one big pipe with 7 holes one big hole so you can screw on the bottle cap and six little holes so you can put little pipes and then you put six cups under each little pipe.

WORKS CITED

What I did was a test with one mento,a test with two mentos and a test with 3 mentos.I used 3 types of of soda coke,diet coke, coke zero.I used a 9 foot ruler but I recommend a 20 foot ruler.