

# Does diet cola react the best with Mentos?



The aim of our experiment was to conduct the popular Coca-Cola and Mentos geyser experiment and measure the results to observe which type of Coca-Cola (diet, classic or zero) reacted most effectively. We set out to test the statement 'diet cola reacts the best with Mentos'.

*What soft drink actually reacts best?*



## Our experiment

To test our statement we used three bottles of Coca-Cola, one classic, one diet and one zero. All of the bottles were the same size and the same amount of Mentos were dropped into each bottle. We conducted our experiment three times, to ensure the results were sound.

## Results

Into each 1.25 bottle of Coca-Cola, 3 Mentos were dropped.

When dropped into the diet cola, the Mentos caused a geyser of bubbles on average 57cm tall.

When the Mentos were dropped into the classic cola, the bubbles reached an average of 42cm.

In the cola zero, the Mentos had the least reaction, only reaching to an average of 22cm.



Diet Coca-Cola



Coca-Cola Classic



Coca-Cola Zero

## COCA-COLA & MENTOS FACTS

When a Mentos is dropped into cola, the reaction is not chemical but physical. It's a process called nucleation. All of the carbon dioxide in the cola is trapped in the bottle and is trying to escape, when a Mentos is dropped in all the carbon dioxide gathers in the tiny craters on the surface of the Mentos. The gas then starts forming bubbles and the bubbles then shoot out of the bottle, causing the 'geyser'.

- Coca-Cola is the second most widely understood term in the world after 'ok'.
- Mint is the No.1 selling Mentos flavour.
- If food colouring wasn't added, Coca-Cola would be green.
- Coca-Cola was originally used as a medicine.



## Conclusion

In conclusion, we proved that the statement 'diet cola reacts the best with Mentos' was true. All of the heights of the diet cola were the largest.

Scan this QR code to see the Mythbusters explanation of this experiment!

