



GROUT
MUSEUM
DISTRICT

FILL IN THE BLANK

WORD BANK:

Carbon Dioxide liquid Geyser Experiment Bubbles

In Today's _____ we are putting Mentos into a 2 liter bottle of Coca-Cola. When you open a bottle of Coca-Cola, you see bubbles form at the surface of the _____ making the fizz, those bubbles are filled with a gas we call _____. When we add Mentos to the Coca-Cola you add a lot of place for _____ to form all at once. The only place for that gas to go is up and out of the bottle, creating a _____ like spray of Coca-Cola.

Diet Coca-Cola has more Carbon Dioxide gas dissolved in the liquid, it is generally bubblier. If you were to use Diet Coca-Cola instead of regular Coca-Cola, do you think the geyser would be bigger, smaller or not happen at all? Why do you think that?

There is a type of Mentos candy that has a fruit flavor coating that makes the candy smooth. If you were to use this candy in the experiment instead of the regular kind with all the bumps, do you think they geyser would be bigger, smaller or not happen at all? Why do you think that?



COCA-COLA AND MENTOS EXPERIMENT

This is a fun and safe, although messy, experiment for you to try at home with adult supervision! If you do try this at home I recommend doing it outside like we did away from any buildings.

MATERIALS:

- Sealed bottle of soda pop, can be any kind of soda pop
- Package of regular, non-coated Mentos candy

PROCEDURE:

1. Find a nice big open area to run the experiment!
2. Open your bottle (you'll notice how some bubbles start to come out of the liquid already)
3. Drop several pieces of Mentos into the soda pop (the more you use the better the reaction)
 - a. You'll have to drop them all in at once as quick as you can which can be tricky, the easiest way is to roll up a piece of paper slightly bigger than the size of the candies so when you let them drop they all drop at the same time. As shown below



4. Step away as soon as you get all the Mentos in and watch the Geyser grow!