

Name: \_\_\_\_\_ **Answer Key** \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## Mentos Fountain Worksheet

In a Mentos® fountain, potential energy stored in the soda's carbonation is transferred to kinetic energy.



Our teacher has designed the following fountain:

Nozzle	Soda Temperature	# of Mentos
x shape	room temperature	5

We want to design a Mentos® fountain that shoots higher than this one.

Our class is going to work together to design a Mentos® fountain that shoots as high as possible so we can defeat the teacher in a head-to-head competition. My group is investigating the effect of

number of Mentos® candies **Example Answers**

We will vary number of Mentos® candies, while the other factors remain the same.

We predict that: More Mentos® candies will make the fountain go higher.

Run #	Nozzle	Soda Temperature	# of Mentos®	Results
1	x shape	room temperature	3	The fountain went about 10 feet high.
2	x shape	room temperature	6	It went higher than the last one. It went about 15 feet high.
3	x shape	room temperature	10	This one was highest. We estimate it went about 18 feet high.

Our prediction was right wrong. (circle your answer)

Based on our results, we found: Using more Mentos makes the fountain go higher.

After sharing our results with the other groups, we predict the best fountain design is:

Nozzle	Soda Temperature	# of Mentos®
circle shape	room temperature	10