**Mentos Fountain Worksheet**

**In a Mentos® fountain, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy stored in the   
soda’s carbonation is transferred to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 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   
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**We will vary \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, while the other factors remain the same.**

**We predict that: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Run #** | **Nozzle** | **Soda Temperature** | **# of Mentos®** | **Results** |
| **1** |  |  |  |  |
| **2** |  |  |  |  |
| **3** |  |  |  |  |

**Our prediction was right/wrong.** (circle your answer)

**Based on our results, we found: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

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

|  |  |  |
| --- | --- | --- |
| **Nozzle** | **Soda Temperature** | **# of Mentos®** |
|  |  |  |