

## Carbon Dioxide Challenge

### Chem IH

BQ: What generates the most carbon dioxide?

Materials: Tums, baking soda, alka seltzer, baking powder, balloons, tubing, Erlenmeyer flasks, beakers, mortar/pestle, water, scoopula, spatula, balances, anything else in your lab drawer.

Restrictions:

1. No more than 30 mL of water can be used.
2. No more than 2.00 g of any mixture.

Experimental Design:

Brainstorm ideas of what can affect the generation of carbon dioxide. Write a chemical reaction. Predict what mixture would generate the most gas. How would your experimental design determine the amount of gas generated?

Develop and write:

I. (BG) Your problem

II. Hypothesis AND

independent variable, dependent variable, and controlled variables

III. Materials AN D

safety precautions

IV. Procedure

V. data table

VI. Results (ex. Graph, calculation of dissolve rate in g/sec)

VII. Conclusion