

Name: _____ Date: _____ Period: _____

DOUBLE BUBBLE LAB

Bubble Gum Lab: The Study of the Scientific Method

You will be reminded of the steps of the scientific method through participating in a fun lab involving bubble gum! You will be studying the properties of 3 types of bubble gum. You will be asked to hypothesize, collect and organize data, and use scientific measurement. You will design an experiment to see if Double Bubble gum really makes bubbles twice the size of other bubble gums.

Provided Materials:

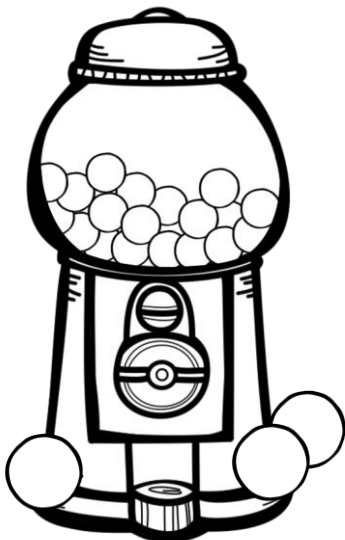
- Double Bubble Gum
- Hubba Bubble Gum
- Extra Bubble Gum
- String
- Meter Stick



Question: Does Double Bubble gum really make double the bubble?

Hypothesis: _____

Experimental Procedures: Explain the procedures you will use to test the provided question. Include the number of trials that you will perform.



Independent Variable: _____

Dependent Variable: _____

Constants/Controls: _____

Experimental Group: _____

Control Group: _____

Record Data: Draw a table that you can use to record the data from your experiment.



Conduct Experiment

Draw Conclusions:

1. Was there a difference in the bubble size between the three brands of gum? Which brand of gum is the best at blowing BIG bubbles? EXPLAIN (Support your answer with your data)
2. Was your dependent variable represented by qualitative or quantitative data? Explain.
3. What is a controlled experiment?
4. How would you improve this lab? (Name some procedural steps/controls/etc. that you would use to make this a more stringent lab)
5. With your lab partner, list 3 variables that may affect/ or did affect the outcome of this experiment.
6. Write a conclusion based with support from your data.
7. On the next page, create a graph that will accurately represent your data. Don't forget to add a title and label each axis.

