

Name _____

Period _____

BUBBLE LAB

BACKGROUND: The miracle of modern chemistry has made possible most of the products we take for granted in our daily lives. Common items, such as soaps and detergents, vary greatly in their chemical makeup from brand to brand. In this activity, you will compare two different brands of dishwashing liquids to determine which chemical solutions make the largest bubbles. In this lab we also emphasis accurate measurement and the scientific method.

Hypothesis: In a statement without any personal pronouns, state which dish liquid will make the largest bubbles.

MATERIALS: List what you will need

PROCEDURE: List what will be done to prove your hypothesis.

NOTE: All measurements should be in centimeters. Numbers should be accurate to the hundredths place. Be sure to label all numbers with the correct unit.

BUBBLE LAB DATA TABLE

Name of Detergent	Palmolive	Ivory
Diameter Bubble #1		
Diameter Bubble #2		
Diameter Bubble #3		
Your Mean Diameter (Enter your mean diameter in the spreadsheet on your teacher's computer.)		
Class Mean Diameter		

ANSWER IN COMPLETE SENTENCES.

1. According to **your data**, which brand of dishwashing liquid made the largest bubbles? Include the numbers.

2. According to the **class** results, which brand made the largest bubbles? Include the numbers.

3. Which do you think is probably more accurate, the class data or your individual data? Explain.

4. What is the variable (the one factor that is changed) supposed to be in this lab?

5. This lab is not a perfectly controlled lab; there are some extra variables that are difficult to control. What are these extra variables?
