

Name: \_\_\_\_\_

## Bubble Lab Checklist

Points Earned	Points Total	Description	Notes
	10	Introduction - 2 to 3 sentences explaining the reason of the experiment and brief background <ul style="list-style-type: none"><li>• explain what the overall objective of the experiment is</li><li>• what are the variables that are being tested</li><li>• What is the null hypotheses</li><li>• <math>H_0</math> - There is no relationship between bubble additives and the number or quality of bubbles produced</li><li>• Think about how you want to measure the result of the test - how many bubbles produced in 15 or 30 seconds - the quality of bubble</li></ul>	
	20	Write a succinct yet complete experimental procedure for cups 1,2,3, and 4 remember 1 is your control, 2 and 3 have variables to be tested, and 4 is sugar bubbles	
	20	DATA Table - Create a data table to capture data produced, make sure to label completely and provide units. Label the Data Table accordingly - this should include data for mixtures 1,2 and 3	
	10	Present the data for question 4 - Create a data table to capture data produced, make sure to label completely and provide units. Label the Data Table accordingly - this should include the mixture created for question 4	
	15	Question 1 and 2 - Observations - In a complete sentence or statement record your observations of the bubble mixtures in cups 1, 2, and 3	
	20	Question 3 - Write a conclusion statement about the effects of sugar and salt and the ability to produce bubbles in terms of the null hypothesis - so if your null hypothesis is that there is no relationship between adding sugar or adding table salt to bubble solution and the production of bubbles	
	20	Question 4 - Write a paragraph that summarizes and makes conclusions about the null hypothesis for cup 4	

