

Name:

Ocean Acidification- Lab Report (Rubric)

Score: \_\_\_\_\_ / 84 Points

Title (must include IV and DV)

\_\_\_\_\_ / 2 Points

**Topic Introduction-** Explain the background information of ocean acidification- *Explain what you know about ocean acidification. (2-3 paragraphs)* \_\_\_\_\_ / 10 Points

**Experimental Question: What are we trying to find out? How (procedures)?** \_\_\_\_\_ / 3 Points

**Pre-Lab Questions: Bubbles Protocol (answer in complete sentences)** \_\_\_\_\_ / 5 Points

**Hypothesis: Bubbles Protocol-** *What did you predict would happen when you blow into the sea water?* \_\_\_\_\_ / 2 Points

**Protocol:** *Briefly explain the protocol used in each of the parts of the experiment. What are the dependent and independent variables? What are the constants?* \_\_\_\_\_ / 5 Points

**Data Table:** Include your data table here: *Make sure to include your control and all experimental groups* \_\_\_\_\_ / 5 Points

**Graph:** Create a graph that includes the data from the bubbles protocol. *Use different colors for each of the controls/experimental groups. Make sure to include a key.* \_\_\_\_\_ / 10 Points

**Data Analysis: (Post-Lab Questions)** \_\_\_\_\_ / 5 Points

**Conclusion:** *Was your initial hypothesis correct? Why or why not? Explain. What did you learn about ocean acidification?* \_\_\_\_\_ / 8 Points

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**Pre-Lab Questions:** \_\_\_\_\_ / 3 Points (answer in complete sentences)

**Hypothesis: Shells Protocol-** *What did you predict would happen when you put the shells into the vinegar versus sea water? Explain why.* \_\_\_\_\_ / 2 Points

**Protocol:** *Briefly explain the protocol used in each of the parts of the experiment. What are the dependent and independent variables? What are the constants?* \_\_\_\_\_ / 5 Points

**Data Analysis: (Post-Lab Questions & Data Table)** \_\_\_\_\_ / 10 Points

**Conclusion: Discuss your results.** *Was your initial hypothesis correct? Why or why not? Explain. What did you learn about ocean acidification?* \_\_\_\_\_ / 8 Points

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