

Vomit Lab Experiment

Name _____ Block _____ Date _____

Your Group Members _____

ANALYZING AND INTERPRETING RESULTS

Conclusion – Claim, Evidence, and Reasoning

- First, organize the essential parts of your conclusion into the graphic organizer below:

Claim (What was present in the sample?)	
Evidence (What <i>results</i> support your claim?)	Reasoning (<i>Why</i> is your evidence related to your claim?)

Review Your Design

- Describe at least one possible **error** or **limitation** in your data that may have kept you from getting more accurate results.
- There are two types of data – **qualitative** and **quantitative**. Quantitative data refers to any observation or measurement that can be described with numbers. Qualitative data refers to descriptions that do not use numbers (i.e. colors, texture, odor, etc.). What type of data did you collect in this lab? Explain your answer.
- In an experiment, a **control** is a sample or group that is used as a standard for comparison. Usually, the control group is the group where the independent variable is missing. In this experiment, what was the control group, and what was its purpose?

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Review Your Design (cont.)

- A **trial** is one repetition of a particular experiment. Scientists are expected to repeat multiple trials of an experiment to verify their results. If we wanted to verify the results of the lab today, what would we have to do?

Extension

- List at least one new **question** that would be interesting to investigate based on your results.

- Describe at least one new application or use of these macromolecule indicator tests. What other situations would require scientists, investigators, or physicians to know the nutrient content of an organic substance?

- Considering everything you have learned so far regarding nutrition and organic macromolecules, do you think Richmond Public Schools should make any changes to their regular cafeteria menu items? Justify your answer using scientific terms from the macromolecule unit.