Chemistry 1
Slime Lab Summary

ALT 7

Name: _____

Period ____ Date _____

Key Question: How does atomic level structure explain the properties observed at the macroscopic level**?**

This is a graded assignment contributing to ALT 7 inquiry. Everyone should aim to improve on this summary compared to earlier ones. For example if you earned a "2" on the Precipitate Lab Summary, examine the rubric closely and work to meet the requirements for a "3" or "4."

Step 1: Answer questions on the next page. Incorporate what you learned from the jigsaw reading and lab.
Step 2: Review the Rubric below and then write your summary to meet it. Use your answers to the questions to inform a novice reader about the lab. A paragraph or two is ideal. Do not just string together your answers to the questions. You need to include transition words and sentences that tie the ideas together and make it easy for your reader to follow.
Here is a sample outline:

1. A topic sentence that grabs the reader's attention and introduces non-Newtonian fluids and the idea that chemical change produces new substances with different properties than reactants.
2. A few sentences describing background information.
    a. The primary goal of the experiment.
    b. Explanations of the scientific principles involved (non-Newtonian fluid, shear stress, cross-linking, chemical change)
3. Observations from the lab to support your claims about the scientific principles.
4. A concluding sentence that ties to your introduction and brings your paragraph to a close.

Rubric the Slime Lab Summary
Students earning a "2" or "1" may revise one time to raise proficiency to a "3."

Report Aspects	4 "Highly Proficient"	3 "Proficient"	2 "Nearly Proficient"	1 "Beginning Proficient"
Writing Style:	☐ Summary has a strong & unique topic sentence. ☐ The closing sentence relates well with the topic sentence. ☐ It is communicated in a well-written paragraph (or two) including complete sentences, correct spelling, grammar and punctuation.	☐ Summary has a relevant topic sentence. ☐ The closing sentence relates well with the topic sentence. ☐ It is a paragraph (or two) including complete sentences, correct spelling, grammar and punctuation with only minor errors.	☐ Summary has a fairly relevant topic sentence. ☐ The closing sentence does relate well with the topic sentence. ☐ It is communicated in a paragraph (or two) including sentences, spelling, grammar and punctuation with some errors.	☐ Summary may or may not have a topic sentence. ☐ It has no closing sentence or it does not relate with the topic sentence. ☐ It is communicated in a paragraph (or two) but includes sentence fragments, poor spelling, poor grammar and punctuation.
Concepts: ☐ Non-Newtonian fluid ☐ Shear stress ☐ cross-linking ☐ chemical change	☐ The chemistry concepts are all included and are accurately defined.	☐ The chemistry concepts are defined with minor error.	☐ Some chemistry concepts are not included or are defined with some error.*	☐ The chemistry concepts are defined with major error or missing althogether.*
Evidence: **Concepts** are supported or explained with evidence from the lab and reading.	☐ The paragraph body includes very strong evidence and several examples to support explanation.	☐ The paragraph body includes evidence and at least one example to support explanation.	☐ The paragraph body includes some evidence and examples to support explanation.*	☐ The paragraph body includes evidence and examples to support explanation but is not relevant.*

* may be met with correct responses to the supplied page of questions

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What chemistry did you learn today by making and investigating slime? Connect your observations to what you learned about non-Newtonian fluids and the molecular level structure of Slime (cross-linking).

1. Write a sentence to introduce the topic of the lab today.

_____

_____

2. Describe the properties and characteristics of the reactants before mixing them together.

_____

_____

3. Briefly describe how you made the slime.

_____

_____

4. What new properties did you observe in the slime that glue and Borax did not exhibit?

_____

_____

5. Write a sentence to introduce a non-Newtonian fluid to your reader. What is a shear stress? Is Slime a non-Newtonian fluid?

_____

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_____

6. Describe in your own words how cross-linking is related to the properties of the slime.

_____

_____

_____

7. Write a concluding sentence that relates to your topic sentence.

_____

_____

Works Cited

Rohrig, Brian. "The Science of Slime." *ChemMatters* Dec. 2004: 13-16. Print.