

**Sludge
Rough Draft
Packet
(Your Title Here)**

Name:

Period:

Block:

H3S1: _____

Sludge Guide - Rough Draft
Part 1: Framing the Investigation

Problem Statement: (What are you trying to solve or answer?) One sentence to one paragraph.

Background Information: Definitions, Observations and Concepts necessary for this investigation. Describe how you would know the difference between alcohol and water, or between metal and nonmetal. In this section, go through the 4 types of materials you have in your sludge (liquids, solids, insoluble powder and salt) and describe how you could separate and identify each of them. This should be a least 1-3 pages, single-spaced for a well done section.

Hypothesis: (If, Then, and Because)

Safety:

Material List:

Lab Title: _____
Diagram _____ **Lab Procedures:**

Safety:

Material List:

Lab Title: _____
Diagram _____ **Lab Procedures:**

Safety:

Material List:

Lab Title: _____
Diagram _____ **Lab Procedures**

Safety:

Material List:

Lab Title: _____
Diagram **Lab Procedures:**

Safety: **Material List:**

Lab Title: _____
Diagram **Lab Procedures:**

Safety: **Material List:**

Insoluble Data Table

Powder Color	Reacts w/ Acid Test	Identity (Name)

H3S2: _____

Part 4: Analyzing and Interpreting Results

Insert Graph (ask for graph paper if needed or make your own)

Identity of Sludge

Components of Sludge	Identity (Name)
Solid #1	
Solid #2	
Solid #3	
Solid #4	
Solute	
Insoluble powder	
Liquid #1	
Liquid #2	

Identity of Liquid #1: _____

Identity of Liquid #2 _____

Chemical Formula: _____

Chemical Formula: _____

Type of Bond: _____

Type of Bond: _____

Molecular Diagram:
Molecular Diagram:

Exceeds: Chemical formula, bond type and molecular diagram for insoluble powder, salt, and the solids. (Need at least 2/3rd correct to exceeds)

Conclusion: (For a good conclusion the following 6 parts should be included).

- 1- Yes/No the data you collected supports/does not support your hypothesis.
- 2- I thought I hadin my sludge.(1 paragraph)
- 3- I have _____ in my sludge. I know I have ____ in my sludge because (use data, numbers, and observations to fully prove you have this item). (8 paragraphs)
*** Repeat #3 seven more times for each of the 8 items in your sludge***
- 4- The errors or possible errors in my labs occurred ...(paragraph or 2)..
- 5- I could have eliminated the errors if I would have.....(paragraph or 2)
- 6- To improve the sludge labs and process I would....(paragraph)