

Name _____ Date _____ Block _____

Distillation of Wood Lab Write Up

Part 1: Framing the investigation

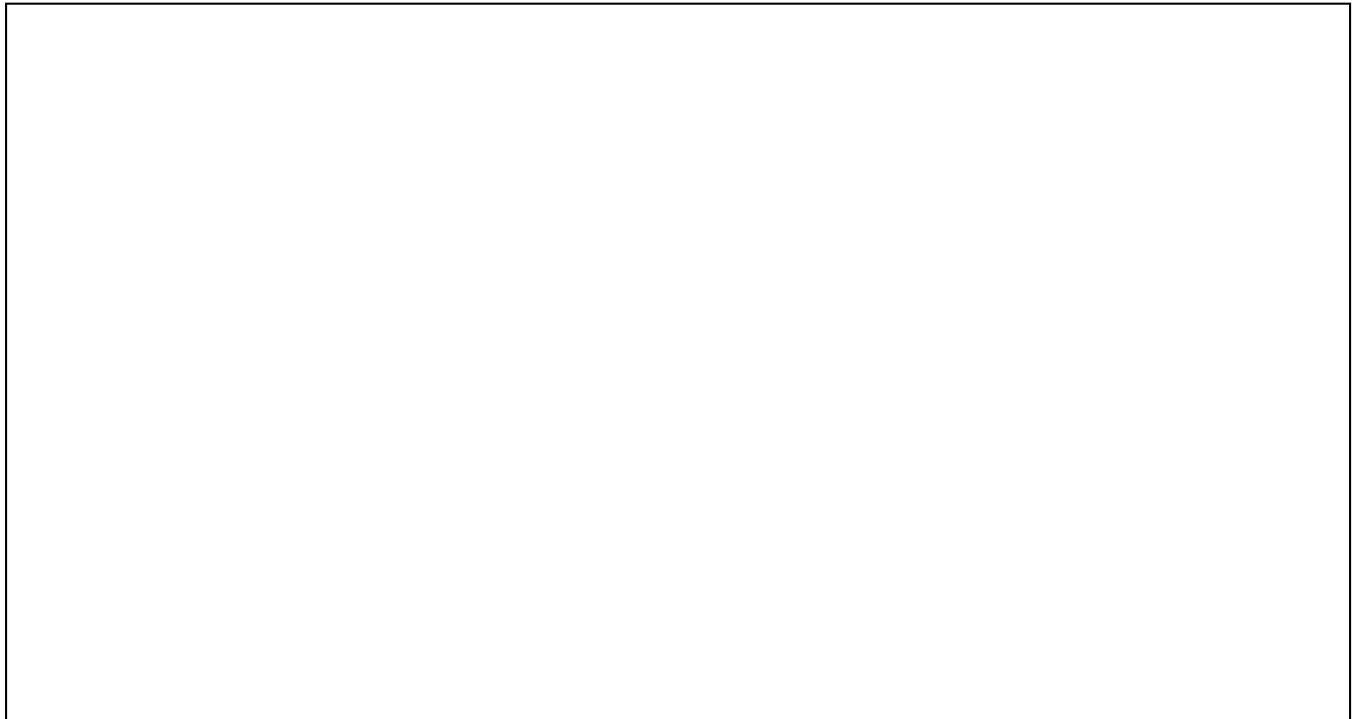
Problem Statement: _____

Background Information: _____

Hypothesis: _____

Part 2: Designing the Experiment

Diagram with Labels



Material List:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____

Safety:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

16. _____
17. _____
18. _____
19. _____
20. _____

Procedures:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

Part 3: Collecting and Presenting Data

Observations: Focus on where you see NEW states of matter created.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

	Trial 1	Trial 2	Trial 3
Mass of popsicles in test tube #1 BEFORE starting			
Mass of popsicles in test tube #1 AFTER burning			
Mass transferred out (subtract)			
Mass of test tube #2 AFTER burning			
Mass of test tube #2 BEFORE starting			
Mass transferred in (subtract)			

Trials	mL of gas collected in quart jar
1	
2	
3	
Total ml of gas collected →	

mL of gas total collected in quart jar: _____ mL x 0.0018 = _____ g of methane gas

Total mass of gas collected into quart jar = _____ g

Total mass transferred out of test **tube #1** (add all trials) = _____ g

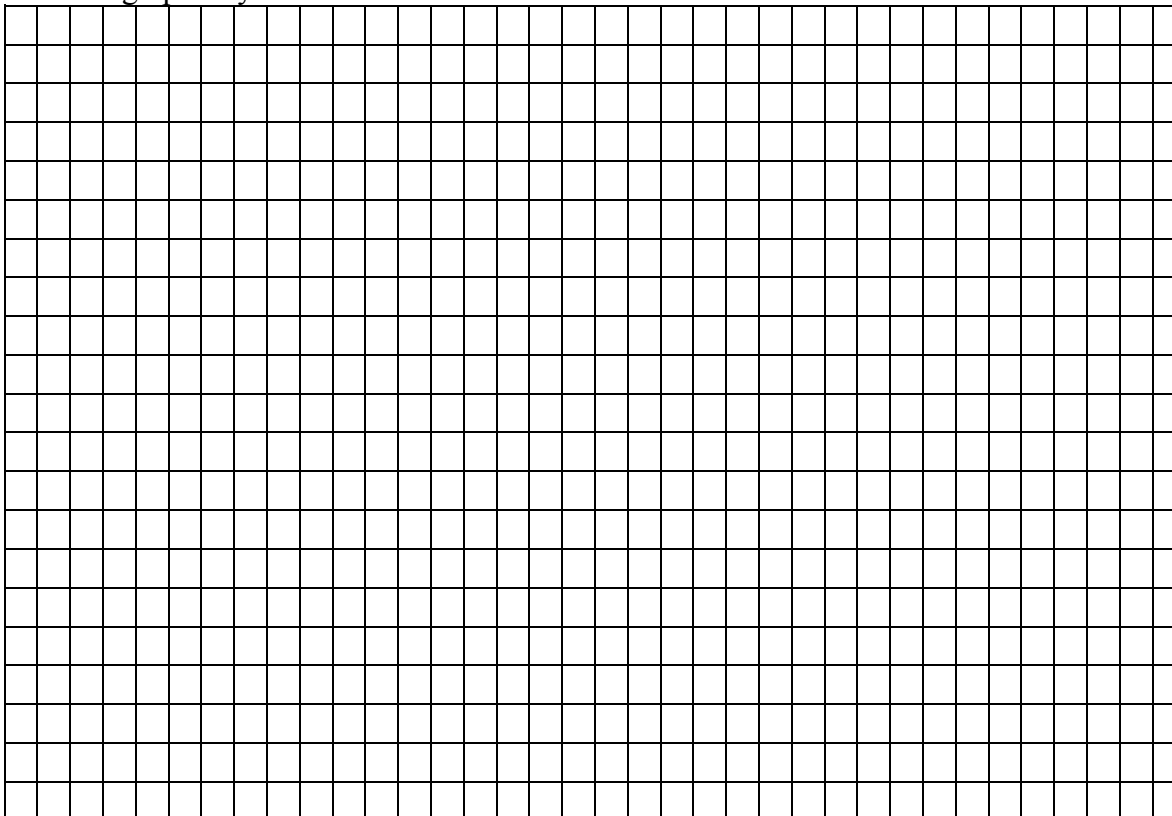
Total mass transferred into test **tube #2** (add all trials) = _____ g

Total mass **out** _____ (test tube #1)

Total mass **into** _____ (test tube #2 and quart jar)

Are these 2 numbers equal? Yes or No

Make a graph of your data:



Conclusion: Write in complete sentences.

1. Does the data support your hypothesis?
2. Restate your hypothesis and summarize the lab.
3. Use observations and data (#s) to support your answer to question 1.
4. What were the possible sources of error in the lab?
5. How could you eliminate those errors?
6. If you had to do this lab over, what would you change, improve about it?
7. Was the mass of the popsicles conserved in this lab?
8. Were there changes of states in the lab? Where did you see them in the lab? (locations in the setup).