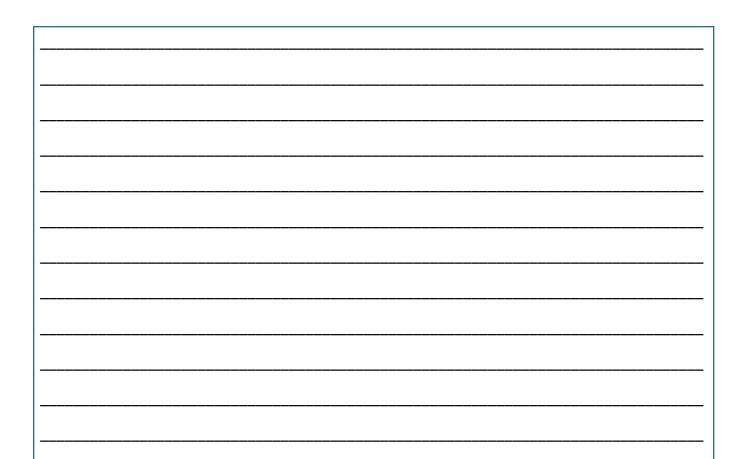
lame:		Hour:	
ou watched the vi	deo of the elephant's toothpaste, which was the	result of combining three of	different
ngredients togethe	r: potassium iodide (a substance), a mixture of h	nydrogen peroxide and wa	ter, and soa _l
nixture).			
	it what is going on, here are the results from tes	its of different combination	s of the three
ngredients.			l
Combination	Ingredients combined	Bubbles?	
А	hydrogen peroxide + soap	No	
В	potassium iodide + soap	No	
С	hydrogen peroxide + potassium iodide	Yes, lots!	
Checklist:			
	ing that occurs throughout the experiment: och ingredient before and after test (3)		
Observations:			
Observations: 			
Observations:			



Mass of the system before mixing the ingredients:



Mass of the system after mixing the ingredients:



 After combining these ingredients what could have caused the mass of the system to change? (4 points) 		
Checklist:		
Explain the following items and how each could have caused the mass of the system to change: Mass Open vs. closed system What is leaving/entering the flask Bubbles		

2. Use these two resources: a) your observations and b) your key model ideas to make an argument to answer this

question:

openscied.org 2/6/25 Page 3

What gases could not have been produced in this process?		
Checklist: ☐ State the claim ☐ Have and explain evidence to support your claim. (Use the experiment that was viewed) ☐ What is the reasoning as to why and how your evidence supports your claim		

3. Use these three resources: a) your observations, b) your key model ideas, and c) the data table in your notebook of

Some Common Gases, to make an argument to answer this question: (3 points)

openscied.org 2/6/25 Page 4

help you either support or refute the student's claim? (3 points)
Checklist: ☐ Identify and explain the test to be done ☐ Explain and identify the data the would be collected ☐ Explain what the results would mean depending on what results you could get

4. Another student claims that the gas that was produced in this process was methane. If you wanted to collect

your notebook of *Some Common Gases*, to make an argument to answer this question:

additional evidence to either help support or refute this claim you would need additional data. Use the data table in

• Describe one additional test you could do that would help you collect additional data. How could the results

openscied.org 2/6/25 Page 5

•	Density -
•	Flammability -
•	Property -
•	Chemical Reaction -
•	Mass -
•	Substance -
•	Mixture -
•	Soluble -
•	Insoluble -

5. Define each of the following terms: