Name:			
Date:	Period		
Entry	Sponge B	Sob and Party Blow ch Air Can You Exhale?)	ers
Problem ; you exhale?	If your lungs hold	l about 6 liters of air, how r	
Your Hypothesis: (Us	se Ifthenbecaus	se)	
below while you follow	Getting Started sectors were steps 1-8.	Amount of H <sub>2</sub> 0	Conclusion (Use c
Absorbed by the Sponge (ml)	Squeezed from the Sponge (ml)	Remaining in Sponge after Squeezing (ml)	2. What is the answ
		tant that air romain in your	your answer. 3. Why is it impor
Conclusion (answer t	the following with c	omplete sentences)	
1. Was the sponge sti why not?	ill wet after you sque	eezed out as much as you co	ould? Why or

2. How do you think the data collected above relates to your lungs and what happens

when you inhale and exhale?

## Part II: Measuring How Much Air You Can Exhale (Vital Capacity)

**Procedure:** Follow the directions for Inquiry 11.1 Procedure 1-6 on p.92-94. Fill out the data table below as you perform the experiment.

## **Exhaled Air Data**

(Measuring Vital Capacity)

Names of Students	Trial #1	Trial #2	Average Amount of Exhaled Air (liters)
			7

Conclusion (Use complete sentences to answer the following questions)

- 1. Why do scientists conduct multiple trials when doing an experiment?
- 2. What is the answer to the Investigative Question? Use the two data tables to support your answer.
- 3. Why is it important that air remain in your lungs after you exhale?
- 4. List five things that might affect how much air a person's lungs can hold?

Read p.96 Up, Up, and Away before answering #5 - #8 below.

- 5. What is the main cause of mountain sickness? Explain.
- 6. How does altitude affect the amount of oxygen in the air?
- 7. List four effects of oxygen shortage. (Symptoms)
- 8. What do experienced mountain climbers do to prevent mountain sickness?