

How much air do you breathe?

See how much air you can hold in one breath!

Steps:

1. Breathe in as much air as you can.
2. Exhale out into the balloon and quickly tie the balloon shut.
3. Holding one end of a piece of string, wrap it around the balloon at its widest point.
4. Mark the string where the two ends meet with a pen.
5. Use a ruler to measure the length of string. The string represents the amount of air you breathe out. Write down the length.

Student records length of string._____

6. Record Data: Keep track of the number of times you breathe in one minute.

Student records the number of breaths per minute_____

7. Compare the length of your string and the number of times you breathed in to those of your group.

a. Were they the same or different? _____

b. Why do you think this is?(possible ans):because everyone has different sized lungs

8. What relationship, if any, can you see between breathing rate and how much air can be held in one breath? (possible ans) a faster rate of breathing usually causes a smaller amount of air to be taken in with each breath._____

Name _____

Date _____

Breathing Differences

1. Ask a question: _____

2. Form a hypothesis about breathing: (for example) small animals have a higher respiration
rate since their lungs are smaller _____

3. Explain how your investigation will test this
hypothesis: _____

I will count the number of breaths the lizard takes in one minute _____

a) teacher's approval _____

4. Conduct the investigation. Write down observations or data collected.

5. Write your conclusion: _____

Answer should contain an explanation of why the data supports or rejects the hypothesis.
