

Measuring the Capacity of Your Lungs

The amount of air that you move in and out of your lungs while breathing normally is called **TIDAL VOLUME**. This amount of air provides enough oxygen for a person who is resting. It is possible to inhale and exhale more forcefully -- the maximum amount of air moved in and out of the lungs is called the **VITAL CAPACITY**. In this activity, you will be measuring the vital capacity and the tidal volume of your own lungs. That actual number can then be compared with a number obtained from an equation that measures vital capacity. In a fact, you are measuring an actual number, based on laboratory measurements, to a theoretical number, based on an equation. If you have any breathing difficulties (asthma or other condition), you should not participate in this activity. Instead, only take the data on your lab partner.

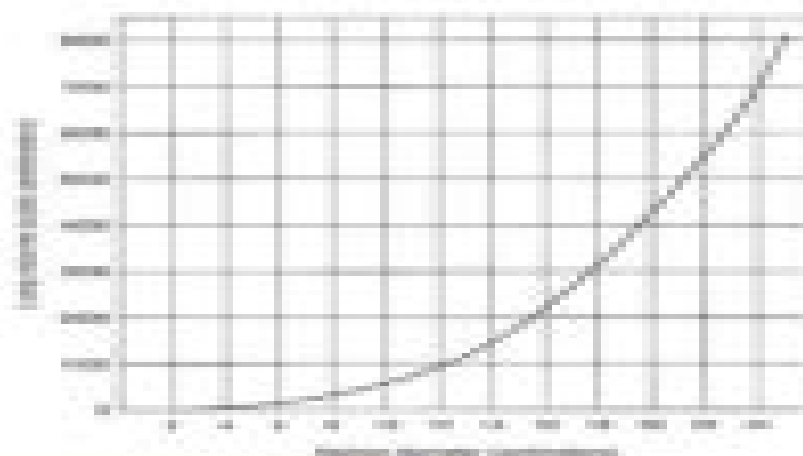
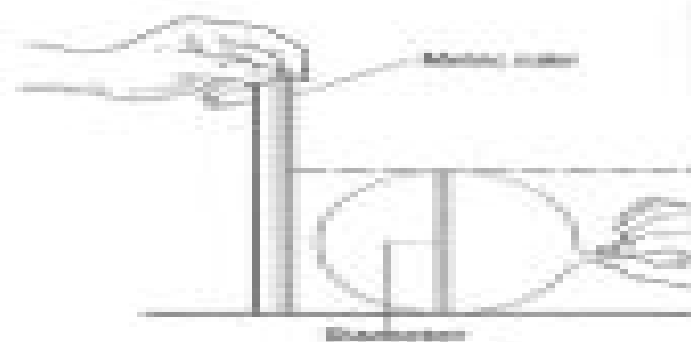
Materials

Balloons	metric ruler
metric stick	centimeter scale (optional)

1. Measuring Tidal Volume -- Stretch a round balloon several times to stretch it out. Breathe normally and then exhale normally into the balloon. Do not force your breathing. Pinch the end of the balloon and measure its diameter. Be careful with the measurements to be sure you do not flatten the balloon. Repeat this so that you have 3 total measurements and can take the average and record in the data table.

2. Measuring Vital Capacity -- Repeat the procedure, only this time inhale as much air as you can and exhale forcefully. Record these measurements in the data table.

3. Convert the diameters to a volume using the graph and record this in your table.



From: **The Biology Corner** <http://www.biologycorner.com/worksheets/lungcapacity.html>
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Measuring Lung Capacity Lab Answer Key

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Table of Contents Measuring Lung Capacity Lab Answer Key

1. Understanding the eBook Measuring Lung Capacity Lab Answer Key
 - The Rise of Digital Reading Measuring Lung Capacity Lab Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Measuring Lung Capacity Lab Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Measuring Lung Capacity Lab Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Measuring Lung Capacity Lab Answer Key

- Personalized Recommendations
 - Measuring Lung Capacity Lab Answer Key User Reviews and Ratings
 - Measuring Lung Capacity Lab Answer Key and Bestseller Lists
5. Accessing Measuring Lung Capacity Lab Answer Key Free and Paid eBooks
 - Measuring Lung Capacity Lab Answer Key Public Domain eBooks
 - Measuring Lung Capacity Lab Answer Key eBook Subscription Services
 - Measuring Lung Capacity Lab Answer Key Budget-Friendly Options
 6. Navigating Measuring Lung Capacity Lab Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Measuring Lung Capacity Lab Answer Key Compatibility with Devices
 - Measuring Lung Capacity Lab Answer Key Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Measuring Lung Capacity Lab Answer Key
 - Highlighting and Note-Taking Measuring Lung Capacity Lab Answer Key
 - Interactive Elements Measuring Lung Capacity Lab Answer Key
 8. Staying Engaged with Measuring Lung Capacity Lab Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Measuring Lung Capacity Lab Answer Key
 9. Balancing eBooks and Physical Books Measuring Lung Capacity Lab Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Measuring Lung Capacity Lab Answer Key
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Measuring Lung Capacity Lab Answer Key
 - Setting Reading Goals Measuring Lung Capacity Lab Answer Key
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Measuring Lung Capacity Lab Answer Key

- Fact-Checking eBook Content of Measuring Lung Capacity Lab Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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