

# Measuring Lung Capacity Lab

Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

## Background

Human lung capacity can be measured in several ways. One way is by using a complex piece of laboratory equipment called a spirometer. However, lung capacity can also be measured by using a balloon.

Several different lung volume measurements can be made. The amount of air taken in or expelled during normal breathing is about  $500 \text{ cm}^3$ . This volume of air called the **tidal volume**. This amount of air provides enough oxygen for a person who is resting. The largest possible amount of air which can be exhaled after drawing in a deep breath is the **vital capacity**. The amount of air that remains in the lungs after exhaling normally but which can be expelled is the **expiratory reserve**. A certain amount of air in the lungs cannot be expelled. This is the **residual volume**.

## Purpose

- To measure your vital capacity
- To make comparisons among factors that may affect vital capacity
- To compare your experimental data with lung capacity data obtained from a spirometer

## Materials

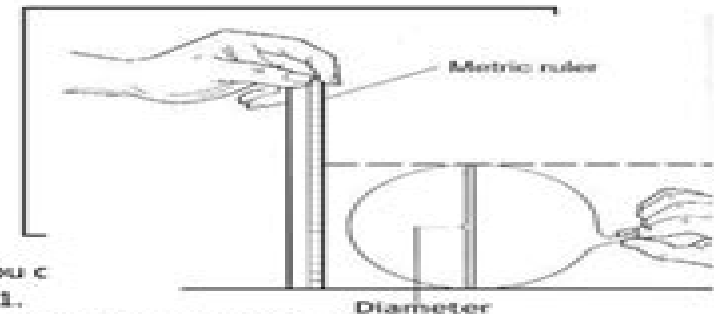
Round Balloon      Metric Ruler

## Procedure

Part A: Measure your Height in centimeters: \_\_\_\_\_

### Part B. Vital Capacity

- Stretch a balloon several times
- Take as deep a breath as possible. Then exhale all the air you can
- Measure and record the diameter of the balloon in Table 4-1.
- Run four more trials. Record the diameter of the balloon for each trial in the data table.



### Part C. Conversion of Diameters to Volume

Lung volume is expressed in cubic centimeter units ( $\text{cm}^3$ ). ( $1,000 \text{ cm}^3$  is slightly more than a quart.)

- To convert from balloon diameter to volume, locate the balloon diameter on the horizontal axis of Figure 6-2. Follow this number up to the heavy line, then move across to locate the corresponding volume.

For example, if your balloon diameter is 14.5 cm, then the corresponding lung volume is  $1500 \text{ cm}^3$ .

- Convert each diameter for vital capacity to volume.
- Record the volumes in Table 4-1.

# Lung Capacity Measurements Lab Manual

**Terry J. Housh, Joel T. Cramer, Joseph P.  
Weir, Travis W. Beck, Glen O. Johnson**

## **Lung Capacity Measurements Lab Manual:**

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