

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 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

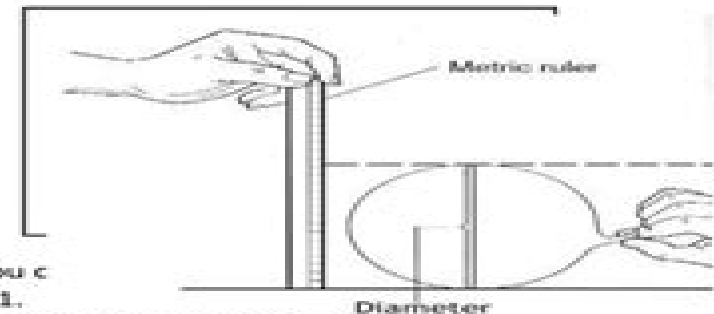
Round Balloon Metric Ruler

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 (cm^3). (1,000 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 cm^3 .

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

Lung Capacity Measurements Lab Manual

Roger Eston, Thomas Reilly



Lung Capacity Measurements Lab Manual:

Respiratory Care Clinical Competency Lab Manual Sandra T Hinski, 2013-12-10 Respiratory Care Clinical Competency Lab Manual provides the practical skills needed to apply classroom theory to clinical practice This text has the flexibility to be used in conjunction with all other respiratory care titles as well as in other disciplines that require competencies in respiratory therapy With detailed step by step procedures supporting procedural illustrations hands on lab exercises case studies and critical thinking questions this text helps you understand and apply theoretical knowledge by demonstrating specific skills Procedural competency evaluation forms help you to assess your progress and performance of specific procedures Detailed structured lab activities provide hands on opportunities to assess psychomotor and patient communication skills in a controlled environment Content correlation to NBRC combined CRT RRT exam content outlines helps you better prepare for credentialing exams Step by step procedural competencies prepare you for the RT competency areas established by the American Association of Respiratory Care AARC and meet the national practice standards for patient care Up to date coverage of current technology equipment Clinical Practice Guidelines CPGs CPR guidelines and CDC recommendations and mass casualty disaster management equips you with the most state of the art training for respiratory care Integration of case based questions within the lab activities helps you develop and promote your critical thinking abilities UNIQUE Coverage of polysomnography addresses clinical evaluation in this expanding specialty area Over 200 images provide visual guidance on how to perform procedures UNIQUE Reality Check boxes arm you with practical knowledge on real world application of various procedures UNIQUE Tip boxes supply you with helpful pointers for the clinical arena Glossary of terms offers quick reference to terms presented in the text

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Laboratory Manual for Exercise Physiology, 2E Haff, G. Gregory, Dumke, Charles, 2019 Laboratory Manual for Exercise Physiology Second Edition provides guided opportunities for students to translate their scientific understanding of exercise physiology into practical applications **A Laboratory Manual of Anthropometry** Harris Hawthorne Wilder, 1920 [Laboratory Manual for Exercise Physiology, Exercise Testing, and Physical Fitness](#) Terry J. Housh, Joel T. Cramer, Joseph P. Weir, Travis W. Beck, Glen O. Johnson, 2017-06-30

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Kinanthropometry and Exercise Physiology Laboratory Manual: Tests, Procedures and Data
Roger Eston, Thomas Reilly, 2013-03-01 Kinanthropometry is the study of human body size shape and form and how those characteristics relate to human movement and sporting performance In this fully updated and revised edition of the classic guide to kinanthropometric theory and practice leading international sport and exercise scientists offer a clear and comprehensive introduction to essential principles and techniques Each chapter guides the reader through the planning and conduct of practical and laboratory sessions and includes a survey of current theory and contemporary literature relating to that topic The book is fully illustrated and includes worked examples exercises research data chapter summaries and guides to further reading throughout Volume Two Exercise Physiology covers key topics such as neuromuscular aspects of movement skeletal muscle function oxygen transport including haematology pulmonary and cardiovascular functions metabolism and thermoregulation VO₂ kinetics physiological economy efficiency and fitness physiological limitations to performance assessment of energy expenditure perceived exertion and maximal intensity The Kinanthropometry and Exercise Physiology Laboratory Manual is essential reading for all serious students and researchers of sport and exercise science kinesiology and human movement Roger Eston is Professor of Human Physiology and Head of the School of Sport and Health Sciences at the University of Exeter Thomas Reilly is Professor of Sports Science and Director of the Research Institute for Sport and Exercise Sciences at Liverpool John Moores University

Laboratory Manual for Anatomy and Physiology
Connie Allen, Valerie Harper, 2020-12-10 Laboratory Manual for Anatomy Physiology 7th Edition contains dynamic and applied activities and experiments that help students both visualize anatomical structures and understand complex physiological topics Lab exercises are designed in a way that requires students to first apply information they learned and then critically evaluate it With many different format options available and powerful digital resources it is easy to customize this laboratory manual to best fit your course While the Laboratory Manual for Anatomy and Physiology is designed to complement the latest 16th edition of Principles of Anatomy Physiology it can be used with any two semester A P text

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