

Respiratory System Lab Activities

Lab 1: Build-A-Lung

Your lungs are so important, but they are often given more credit than they deserve. Your lungs are responsible for the exchange of gas between the atmosphere and the blood, or **external respiration**. Your lungs are NOT responsible for inflating and deflating themselves, though! Beneath your lungs sits a sheet of muscle known as the diaphragm. Like all muscles, this skeletal muscle sheet contracts and relaxes. When the diaphragm contracts, it pulls down towards the abdominal cavity, making the thoracic cavity larger. A larger space means less pressure and more room for your lungs! This decrease in pressure causes your lungs to inhale. When the diaphragm relaxes, it pushes up into the thoracic cavity, making it smaller. This increase in pressure on your lungs forces them to exhale.

Using the reading above, fill out the following chart on the action of the diaphragm.

Diaphragm Action	Contract	Relax
Does the diaphragm move up or down?	down	up
Does this make the thoracic cavity larger or smaller?	larger	smaller
Does this increase or decrease pressure on the lungs?	decrease	increase
Does it cause the lungs to inhale or exhale?	inhale	exhale

In this portion of the lab, you are going to build a model of the diaphragm and lungs. Your teacher should have provided you with the following resources:

- Plastic 16 oz bottle with no lid and the bottom cut off
- Two balloons

How to build a lung:

Step 1: Take one of the balloons and cut the neck off right as it starts to widen into the main part of the balloon.



Answer Key To Respiratory Interactive Physiology

Nick Draper, Helen Marshall



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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 s 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 *Exercise Physiology* Nick Draper, Helen Marshall, 2014-12-05 Exercise Physiology for Health and Sports Performance brings together all the essential human anatomy and applied physiology that students of exercise science physical education and sports coaching need to know Written in a friendly accessible style and containing a wide range of features to help develop understanding this book provides a complete one stop shop for exercise physiology The book is split into two key parts Part One introduces the fundamental principles of nutrition biochemistry cell biology and the energy systems Part Two builds on this foundation by applying the theory to exercise and sports performance in practice With this innovative approach the text enables you to become confident in your knowledge and understanding of energy generation and training principles for all sports Including coverage of exercise in extreme environments and applications of physical activity for health this will be the only exercise physiology textbook you will need Lewis's Adult Health Nursing I and II: Assessment and Management of Clinical Problems 5SAE 2V - E-Book Chintamani, Dr. L. Gopichandran, Mrinalini Mani, 2024-05-20 The 12th edition of Lewis s Medical Surgical Nursing served as the model for Lewis s Adult Health Nursing I II Fifth South Asia Edition which offers a thorough authentic approach to medical surgical nursing or adult health nursing in a clear approachable manner for students This fifth South Asia edition has been thoroughly revised to incorporate the most current information in a format that is easy to learn and practice Not just a textbook this edition is a reference for essential information needed by the students for preparing for all international nursing examinations Additionally it can serve as a vital companion in clinics operating rooms and emergency settings to standardize patient care in all stings **Anatomy & Physiology with Brief Atlas of the Human Body and Quick Guide to the Language of Science and Medicine - E-Book** Kevin T. Patton, Frank B. Bell, Terry Thompson, Pegg L. Williamson, 2022-03-21 A P may be complicated but learning it doesn t have to be Anatomy Physiology 11th Edition uses a clear easy to read approach to tell the story of the human body s structure and function Color coded illustrations case studies and Clear View of the Human Body transparencies help you see the Big Picture of A P To jump start learning each unit begins by reviewing what you have already learned and previewing what you are about to learn Short chapters simplify concepts with bite size chunks of information Conversational storytelling writing style breaks down information into brief chapters and chunks of information

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