

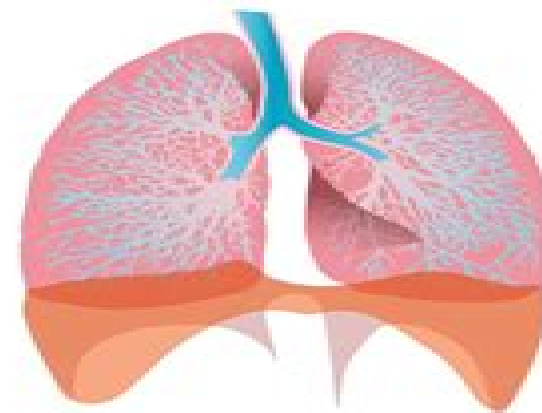
Respiratory System Lab Activities

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

Connie Allen, Valerie Harper



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Lewis's Adult Health Nursing I and II: Assessment and Management of Clinical Problems_5SAE 2V - E-Book

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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

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Pharmacology and Physiology for Anesthesia

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Gopichandran, Mrinalini Mani, 2021-12-21 Content mapped and aligned to the revised BSc Nursing syllabus Nearly 60 nursing

care plans incorporated within the textbook focusing on nursing assessment diagnoses intervention and outcome applying them to nursing practice Several new pathophysiology maps added to the chapters National programs added National Blindness Control Program National Deafness Control Program Indian Transplantation programs Other topics incorporated in the text Eye banking Post heart transplant follow up management with checklist Nursing management of patients in emergency and disaster situations Highlights of newly introduced courses e g Nurse Practitioner Midwifery Hospice care in India National Pressure Ulcer Advisory Panel NPUAP guidelines for assessment of pressure ulcers Screening for breast cancer and cervical cancer Content on occupational and industrial disorders added Ancillary Content on MedEnact Website Educator Resources TEACH for Nurses lesson plans PowerPoint presentations Image Collection Nursing Care Plans Student Resources Key Points Review Questions Case Studies Answer Keys for Case Studies and Rationales for Bridge to NCLEX Examination questions Nursing Care Plans

Digital Interaction and Machine Intelligence Cezary Biele, Janusz Kacprzyk, Wiesław Kopeć, Jakub Możaryn, Jan W. Owsinski, Andrzej Romanowski, Marcin Sikorski, 2025-10-03 This book presents the Proceedings of the 12th Machine Intelligence and Digital Interaction Conference and it combines two disciplines of research The rapid progress in artificial intelligence research and the widespread use of interactive technologies are fundamentally changing our daily lives This has given rise to new social dynamics compelling nations around the world to develop new insights and strategies Addressing these changes effectively demands a multidisciplinary strategy uniting experts from AI and human computer interaction with both academic researchers and industry practitioners The proceedings from the 2024 MIDI conference offer the latest research on the convergence of these two formerly separate fields

The Tribute of Physiology for the Understanding of COVID-19 Disease Georges Leftheriotis, Denis Noble, Susan Wray, Emmanuelle Vidal-Petiot, Adriana Castello Costa Girardi, Matthew A. Bailey, Deborah Schechtman, Ravi Nistala, 2021-11-23

The New Frontier of Network Physiology: From Temporal Dynamics to the Synchronization and Principles of Integration in Networks of Physiological Systems Plamen Ch. Ivanov, Andras Eke, Olga Sosnovtseva, 2022-02-17

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