

NAME _____

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REVIEW SHEET

EXERCISE

37A

Respiratory System Physiology

Mechanics of Respiration

1. For each of the following cases, check the column appropriate to your observations on the operation of the model lung.

Change	Diaphragm pushed up		Diaphragm pulled down	
	Increased	Decreased	Increased	Decreased
In internal volume of the bell jar (thoracic cage)		✓	✓	
In internal pressure	✓			✓
In the size of the balloons (lungs)		✓	✓	
In direction of air flow	Into lungs	Out of lungs ✓	Into lungs ✓	Out of lungs

2. Base your answers to the following on your observations in question 1.

Under what internal conditions does air tend to flow into the lungs? ↑ thoracic volume, and ↓ pressure.

Under what internal conditions does air tend to flow out of the lungs? Explain why this is so. ↓ thoracic volume, ↑ pressure, Gases move in the direction that tends to equalize pressure inside and outside the "container."

3. Activation of the diaphragm and the external intercostal muscles begins the inspiratory process. What effect does contraction of these muscles have on thoracic volume, and how is this accomplished? ↑ thoracic volume. The diaphragm moves inferiorly, increasing the superior/inferior dimension; the ribs swing up and out, increasing the lateral and anterior/posterior dimensions.

4. What was the approximate increase in diameter of chest circumference during a quiet inspiration? (student data) inches
During forced inspiration? (student data) inches

Review Sheet 37a Respiratory System Physiology

Lippincott Williams & Wilkins

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Study Guide for Essentials of Anatomy & Physiology Andrew Case, 2011-02-23 The all new Study Guide for Essentials of Anatomy Physiology offers valuable insights and guidance that will help you quickly master anatomy and physiology This study guide features detailed advice on achieving good grades getting the most out of the textbook and using visual memory as a learning tool It also contains learning objectives unique study tips and approximately 4 000 study questions with an answer key all the tools to help you arrive at a complete understanding of human anatomy Study guide chapters mirror the chapters in the textbook making it easy to jump back and forth between the two during your reading Approximately 4 000 study questions in a variety of formats including multiple choice matching fill in the blank short answer and labeling reinforce your understanding of key concepts and content Chapters that are divided by the major topic headings found in the textbook help you target your studies Learning objectives let you know what knowledge you should take away from each chapter Detailed illustrations allow you to label the areas you need to know Study tips offering fun mnemonics and other learning devices make even the most difficult topics easy to remember Flashcard icons highlight topics that can be easily made into flashcards Answer key lists the answers to every study question in the back of the guide

The Surgical Review Paige M. Porrett, Robert E. Roses, John R. Frederick, Larry R. Kaiser, 2012-03-29 Completely updated for its Third Edition this book is a comprehensive review of the topics on the American Board of Surgery In Training Examination ABSITE the certifying exam and recertification exams Chapters are co

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of the concepts in each chapter Illustrated Study Guide for the NCLEX-PN® Exam - E-Book JoAnn Zerwekh, 2023-11-30

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