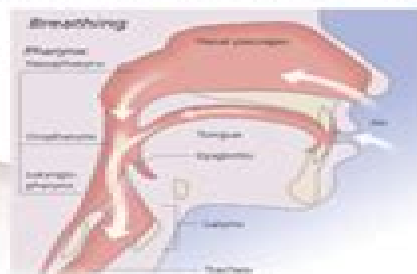
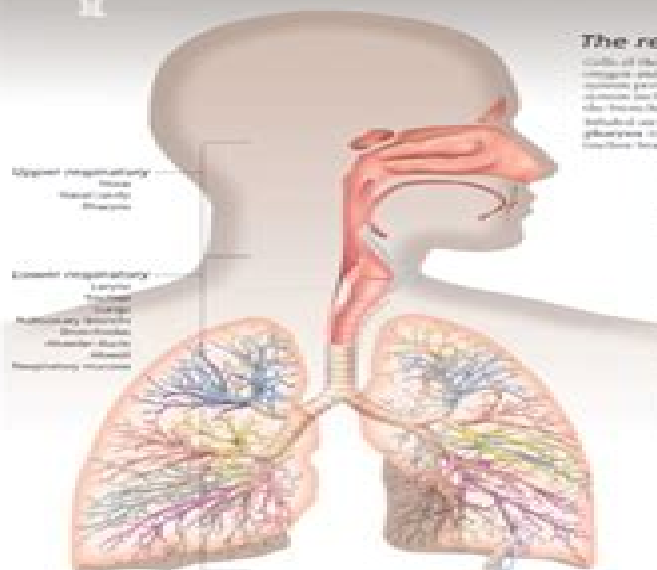




# Respiration & Gas Exchange

## The respiratory system

Cells of the body get energy through aerobic metabolism, a process that uses oxygen and produces carbon dioxide as a waste product. The respiratory system provides the means for exchanging these gases at the cellular level. The system includes the nose and mouth passages, the pharynx, larynx and trachea, the bronchi and the lungs. Inspired air entering through the nasal cavity or mouth, flows through the pharynx (throat) and the larynx (voice box) to the trachea (windpipe). The trachea branches into two bronchi, which carry air into each of the lungs.



Through breathing, our respiratory system provides the needed oxygen and expels the carbon dioxide we need to eliminate. It completely breathes in (taking in air, inhale) and then expelling it (exhalation).

A normal adult inhales about 14 pints of air per minute while exhales and about 10 pints per minute while sleeping. During exercise or under unusual situations, the body's demand for oxygen increases and the rate of breathing increases.

## Total lung capacity

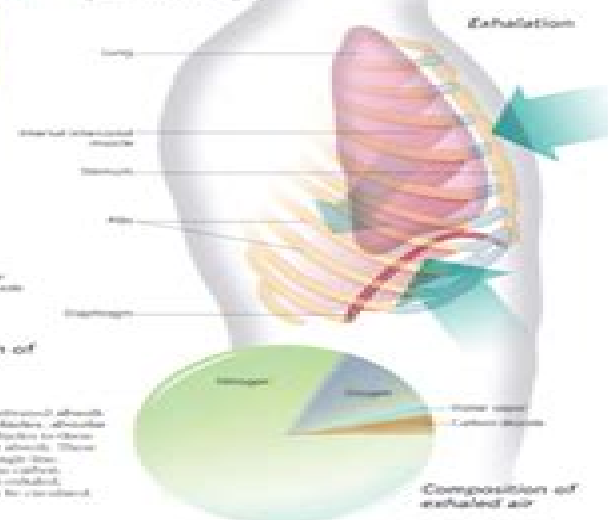
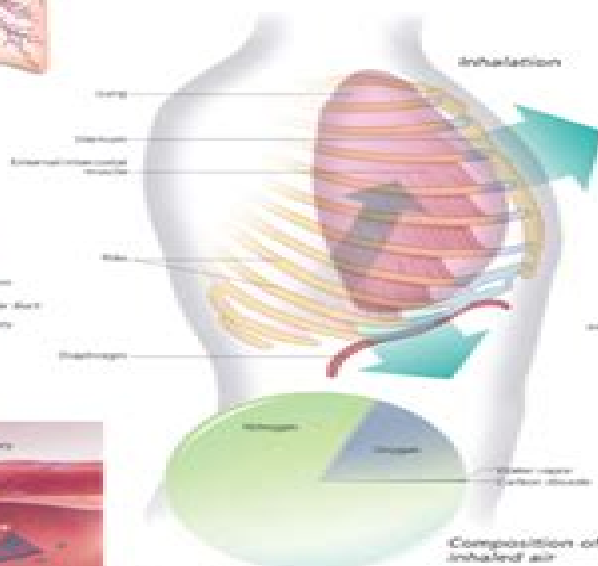


## Lung volumes

During normal inspiration, the amount of air breathed in and out is called **tidal volume**. The additional amount of air that can be forcibly inhaled (just a normal inhalation) is the **inspiratory reserve volume**. The additional amount of air that can be forcibly exhaled (just a normal exhalation) is the **expiratory reserve volume**. Together the **inspiratory reserve volume** and the **expiratory reserve volume** make up the **total capacity**. Exhaling all the air in our lungs would create a vacuum, so when we breathe in the lungs, this air is called **residual volume**. Adding the residual volume to the tidal capacity gives us the **total lung capacity** (about 120 pints).

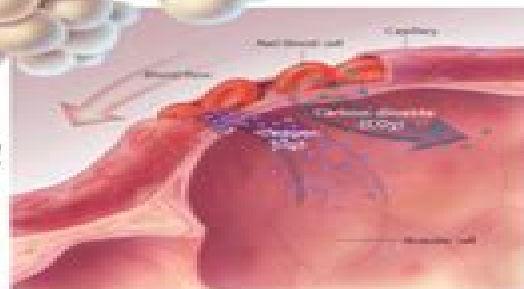
## The mechanics of breathing

During inhalation, the diaphragm moves down and contracts, and the external intercostal muscles lift and draw up the rib cage. These actions increase the volume of the chest cavity. A partial vacuum is created by the additional space, and air is drawn in to equalize the pressure. During exhalation, the external intercostal muscles relax, returning the chest cavity. The lungs passively expand and air is pushed out of the lungs.



## Gas exchange

Gas exchange occurs in the more than 100 million tiny thin-walled alveoli within the lungs. These alveoli are along the respiratory bronchioles, alveolar ducts and alveolar sacs. Inspired air is carried through the bronchioles to these alveoli. Blood is carried in the capillaries that wrap around all the alveoli. These capillaries are so narrow that blood cells must pass through at a single file. Oxygen ( $O_2$ ) diffuses across the alveolar wall into the blood cells to carbon dioxide ( $CO_2$ ) diffuses from the blood into the alveoli. The  $CO_2$  is exhaled. The newly oxygenated blood travels from the lungs to the heart to be circulated throughout the body.



# Respiratory System Chart

**M Mosston**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

## **Respiratory System Chart:**

*Blueprint for Health Your Respiratory System Chart* Anatomical Chart Company, Anatomical Chart Company Staff, 2002-09 The Blueprint for Health series of charts illustrated by Kate Sweeney are designed to make human anatomy come alive for kids Colorful clear pictures help to explain concepts Examples and activities make learning and understanding fun and easy Your Respiratory System from the Blueprint for Health charts series is an ideal tool for educating pediatric patients and school aged kids This chart describes why we breathe and illustrates the respiratory system and the role of important organs such as the brain nose trachea lungs heart and diaphragm It shows what happens inside the lungs and the flow of air during the breathing process and shows smoke damaged alveoli The chart includes fun facts You take over 20 000 breaths a day how to make a model of your lungs and answers to questions like Why do I yawn and How do I laugh Bright colors bold figures and appealing anatomically correct illustrations make learning enjoyable made in USA Available in the following versions 20 x 26 heavy paper laminated with grommets at top corners ISBN 9781587797415 20 x 26 heavy paper ISBN 9781587797408 set of all 9 Blueprint for Health charts laminated versions KSSET9 *Blueprint for Health Your Respiratory System Chart* Anonimo, 2003 The Blueprint for Health series of charts illustrated by Kate Sweeney are designed to make human anatomy come alive for kids Colorful clear pictures help to explain concepts Examples and activities make learning and understanding fun and easy Your Respiratory System from the Blueprint for Health charts series is an ideal tool for educating pediatric patients and school aged kids This chart describes why we breathe and illustrates the respiratory system and the role of important organs such as the brain nose trachea lungs heart and diaphragm It shows what happens inside the lungs and the flow of air during the breathing process and shows smoke damaged alveoli The chart includes fun facts You take over 20 000 breaths a day how to make a model of your lungs and answers to questions like Why do I yawn and How do I laugh Bright colors bold figures and appealing anatomically correct illustrations make learning enjoyable made in USA Available in the following versions 20 x 26 heavy paper laminated with grommets at top corners ISBN 9781587797415 20 x 26 heavy paper ISBN 9781587797408 set of all 9 Blueprint for Health charts laminated versions KSSET9 **Academic Vocabulary Level 5--Respiratory System** Stephanie Paris, 2014-01-01 This lesson integrates academic vocabulary instruction into content area lessons Two easy to implement strategies for teaching academic vocabulary are integrated within the step by step standards based science lesson *The Respiratory System* Andrew Davies, Carl Moores, 2014-02-03 This is an integrated textbook on the respiratory system covering the anatomy physiology and biochemistry of the system all presented in a clinically relevant context appropriate for the first two years of the medical student course One of the seven volumes in the Systems of the Body series Concise text covers the core anatomy physiology and biochemistry in an integrated manner as required by system and problem based medical courses The basic science is presented in the clinical context in a way appropriate for the early part of the medical course There is a linked website

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*Respiratory System (chart).* Carolina Biological Supply Co,1982      **The Respiratory System 3D Raised Relief Chart** Anatomical Chart Company,Anatomical Chart Company Staff,2004-03 This chart illustrates the respiratory system from the frontal sinus to the diaphragm It includes views of the paranasal sinuses larynx and bronchopulmonary segments and also shows the structure of intrapulmonary airways and the cross section of alveolus The chart discusses the conducting system lungs and pleurae ventilation and gas exchange Three dimensions let you feel texture and form Three dimensional images bold titles and clear easy to read labels make it easy and fun to learn about the body The durable lightweight non toxic recyclable plastic will last indefinitely The chart has a hole at the top for easy wall hanging and will also stand up on an easel

*Hands-On Science and Technology, Grade 5* Jennifer Lawson,2008-11-13 This teacher resource offers a detailed introduction to the Hands On Science and Technology program guiding principles implementation guidelines an overview of the science skills that grade 5 students use and develop and a classroom assessment plan complete with record keeping templates It also includes connections to the Achievement Levels as outlined in The Ontario Curriculum Grades 1 8 Science and Technology 2007 This resource has four instructional units Unit 1 Human Organ Systems Unit 2 Forces Acting on Structures and Mechanisms Unit 3 Properties of and Changes in Matter Unit 4 Conservation of Energy and Resources Each unit is divided into lessons that focus on specific curricular expectations Each lesson has curriculum expectation s lists materials lists activity descriptions assessment suggestions activity sheet s and graphic organizer s      *The Respiratory System* Kimberly A.medical illustrator Martens,1997      *Brunner and Suddarth's Textbook of Medical-Surgical Nursing* Janice L. Hinkle,Kerry H. Cheever,2018-08-30 Trusted by nursing fraternity for more than 50 years Brunner and Suddarth s Textbook of Medical Surgical Nursing layers essential patient care information engaging critical thinking exercises and diverse features to help students learn critical content The South Asian edition is comprehensively updated to customize and keep pace with South Asia s health care environment by including Indian Asian epidemiologic data of common diseases and disorders flowcharts of pathophysiologic processes of various diseases and disorders and psychosocial concepts which is contemporary to South Asian scenario Furthermore essential medical surgical nursing content and diseases disorders which

are specific to South Asia are added to make this textbook most suitable to South Asian learners **School Education**

,1894 **The Respiratory System and Asthma Anatomical Chart** Anatomical Chart Company, Anatomical Chart Company Staff, 2000-01-28 This chart shows a large illustration of the conducting system which is comprised of all the pathways through which the air travels to reach the lungs The chart shows ventilation and gas exchange illustrates common asthma triggers and compares normal bronchioles to asthmatic bronchioles **CliffsStudySolver: Biology** Max

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Mastering Statistical Process Control Tim Stapenhurst, 2013-05-13

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