

# The Re The Respiratory System

Your respiratory system brings

Problems with your resp

## The Parts of Lungs

The respiratory system is made up of

- Trachea
- Bronchi (Main)
- Bronchioles (Small)
- Alveoli (Tiny sacs where gas exchange happens)

## Right and Left Lungs

Each lung has an upper and lower lobe. The right lung is larger and has three lobes. The left lung is smaller and has two lobes.

The central cavity is made up of the heart. The right and left ventricles are separated by the interventricular septum.

Major blood vessels: Superior and inferior vena cava, pulmonary artery and vein.

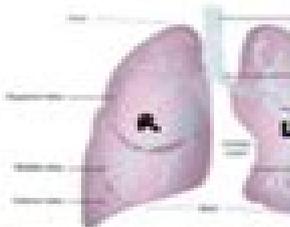
Air is inhaled or exhaled by means of the diaphragm and rib cage.



## The Bronchial Tree

The bronchial tree is the network of airways that carries air from the trachea to the lungs.

- Trachea
- Primary bronchi
- Secondary bronchi
- Tertiary bronchi
- Bronchioles
- Terminal bronchioles
- Alveoli (terminal respiratory units)

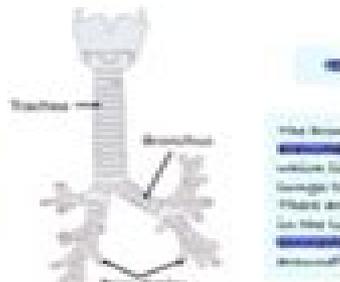


## The Pleural Cavity

The pleural cavity is the space between the two layers of the pleural membrane. It contains a small amount of pleural fluid.

## The Diaphragm

The diaphragm is a muscular partition that separates the thoracic and abdominal cavities. It contracts and relaxes to change the volume of the thoracic cavity.



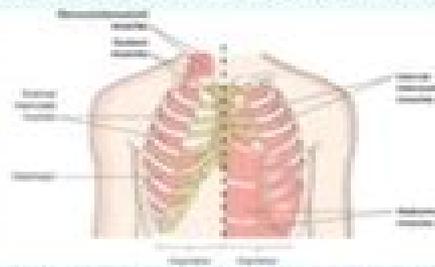
A diagram showing the diaphragm.

Inflation and deflation of the lungs require changes in the volume of the thoracic cavity. This is dependent on the contraction and relaxation of the muscles of respiration and the elastic properties of the lungs.

## The Mechanics of Respiration

### Inhalation

- Diaphragm contracts and moves down
- Ribs contract and move out
- Volume of thoracic cavity increases
- Pressure in thoracic cavity decreases
- Air moves into the lungs



### Exhalation

- Diaphragm relaxes and moves up
- Ribs relax and move in
- Volume of thoracic cavity decreases
- Pressure in thoracic cavity increases
- Air moves out of the lungs

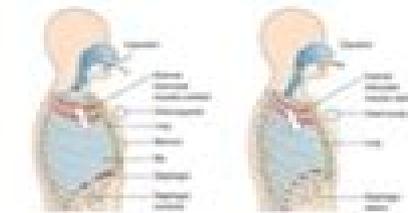
**Inhalation:** The process of respiration involves the intake of air into the lungs. This is an active process as it uses energy. Inhalation takes approximately 2 seconds.

**Exhalation:** The process of respiration involves the release of air from the lungs. This is a passive process as it does not use energy.

**Diaphragm:** The diaphragm is a muscular partition that separates the thoracic and abdominal cavities. It contracts and relaxes to change the volume of the thoracic cavity.

**Pleural Cavity:** The pleural cavity is the space between the two layers of the pleural membrane. It contains a small amount of pleural fluid.

**Pressure:** The pressure in the thoracic cavity is lower than the atmospheric pressure during inhalation and higher during exhalation.



## Volume and Pressure

- Inhalation:** Volume of thoracic cavity increases, pressure decreases, air moves in.
- Exhalation:** Volume of thoracic cavity decreases, pressure increases, air moves out.
- Diaphragm:** Contracts and relaxes to change the volume of the thoracic cavity.
- Pleural Cavity:** Contains a small amount of pleural fluid.
- Pressure:** Lower than atmospheric pressure during inhalation, higher during exhalation.

## Flow Rates

- Minute Ventilation:** The volume of air that enters or leaves the lungs in one minute.
- Tidal Volume:** The volume of air that enters or leaves the lungs during one normal breath.
- Residual Volume:** The volume of air that remains in the lungs after a normal expiration.
- Functional Residual Capacity:** The volume of air in the lungs at the end of a normal expiration.
- Vital Capacity:** The maximum volume of air that can be exhaled after a maximal inspiration.
- Total Lung Capacity:** The maximum volume of air that can be held in the lungs at any one time.

## Composition of Inspired and Expired Air

Gas	Inspired Air (%)	Expired Air (%)
Oxygen	21%	16%
Carbon Dioxide	0.04%	4%
Nitrogen	78%	78%
Water	Variable	Saturated

## Respiratory Volumes

- Inspired:** Volume of air that enters the lungs during one normal breath.
- Expired:** Volume of air that leaves the lungs during one normal breath.
- Residual:** Volume of air that remains in the lungs after a normal expiration.
- Vital:** Maximum volume of air that can be exhaled after a maximal inspiration.

BREATHE IN... BREATHE OUT

BREATHE IN... BREATHE OUT

BREATHE IN... BREATHE OUT... BREATHE IN... BREATHE OUT...

# Chapter 22 Respiratory System Study Guide

**Deborah M. Brosnan, Donald J.  
Reinhardt**



## **Chapter 22 Respiratory System Study Guide:**

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## **Chapter 22 Respiratory System Study Guide** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Chapter 22 Respiratory System Study Guide**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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