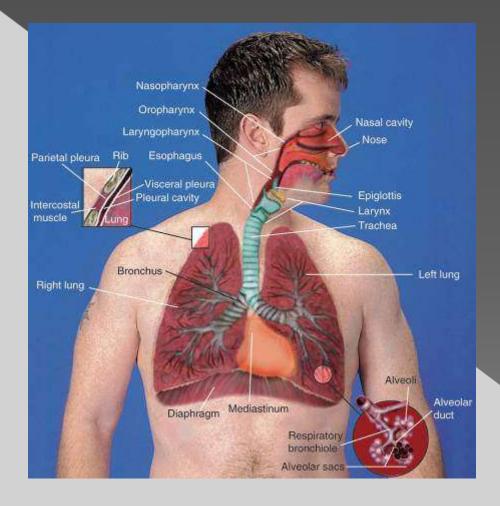
# You need a book and your notes out please!

also have supplies for notebooking 😳

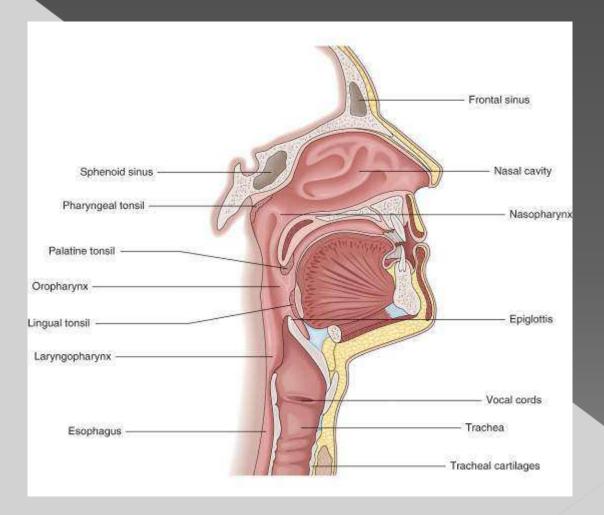
Warm Up – For every word part write 2 terms that use that word part (in NB)

Chapter 7 The Respiratory System

#### Structures of the Respiratory System

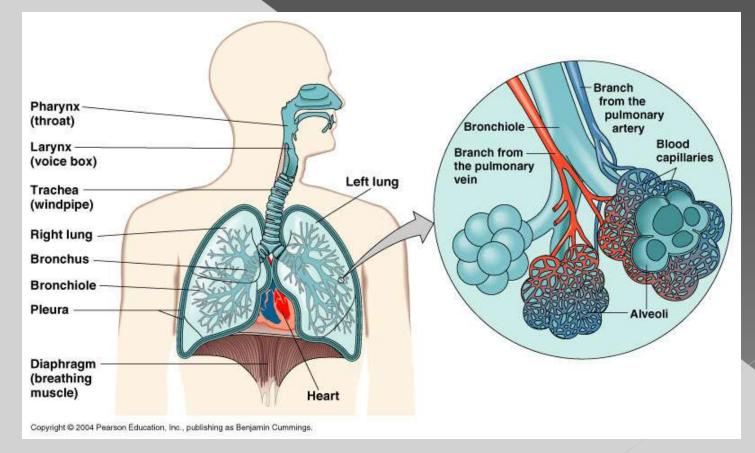


### Structures of the Upper Respiratory Tract



# The Lower Respiratory Tract

#### Consists of bronchial tree and lungs.





#### Primary Functions

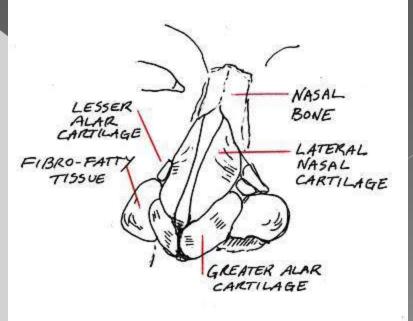
• Exchanges air during inhaling and exhaling.

• Warms, moisturizes, and filters inhaled air.

#### • Related Combining Forms

• nas/o

• rhin/o





#### Primary Functions

- Provides mucus.
- Makes bones of the skull lighter.
- Aids in sound production.

• Related Combining Form

• sinus/o

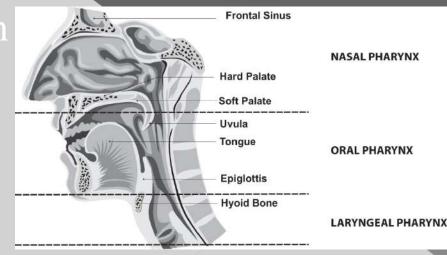


Commonly called the throat ( has 3 divisions: naso, oro & laryngo)

#### OPrimary Function

• Transports air to and from the nose to the trachea

Related Combining Formpharyng/o

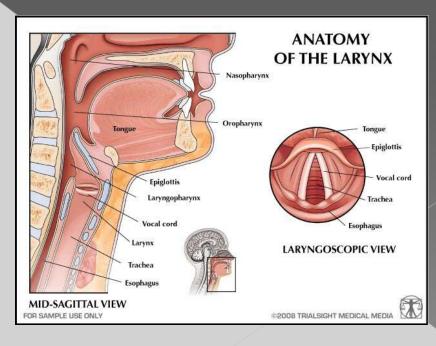




# Primary FunctionMakes speech possible.

### Related Combining Form

• laryng/o



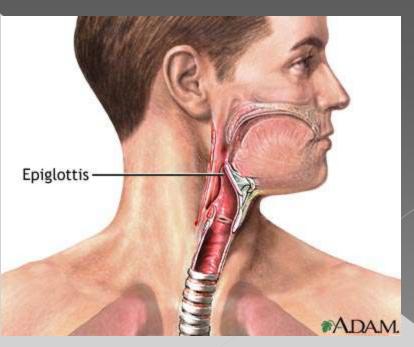
# Epiglottis

#### Primary Function

• Closes off the trachea during swallowing.

#### • Related Combining Form

• epiglott/o

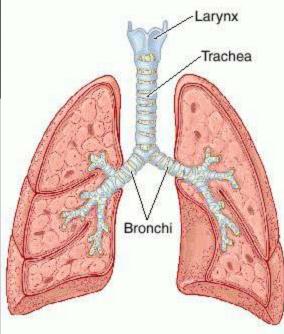




#### OPrimary Function

Transports air to and from the pharynx to the bronchi.
 Related Combining Form

 trache/o

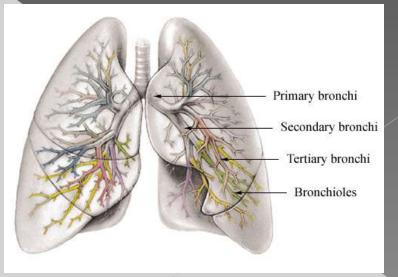


### Bronchi

Primary Function –branch off of the trachea. One branch into each lung. In the lung subdivides into bronchioles

• Transports air from the trachea into the lungs.

Related Combining Forms
 bronch/o, bronchi/o



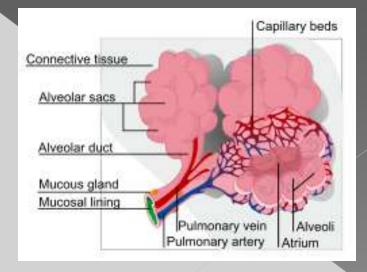


#### OPrimary Function

• Air sacs that exchange gases with the pulmonary capillary blood.

#### • Related Combining Form

• alveol/o



# Pleura

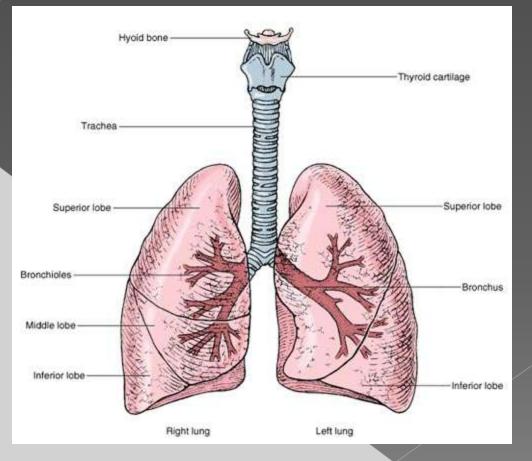
Is a multilayered membrane that surrounds each lung with its blood vessels and nerves

- Pleura Cavity: airtight space between the folds of the pleural membrane
  - Function: contains a watery lubricating fluid that prevents friction when the membranes rub together during respiration

# Diaphragm

Is the muscle that separates the thoracic cavity from the abdomen
It is the contraction and relaxation of this muscle that makes breathing possible

Lungs Lobe – division of the lungs Right Lung – has three lobes: the and inferior OLeft Lung – has two lobes: the inferior



## Respiration

Breathing-brings air into & out of the lungs.

- Output to the second second
- Exhalation- breathing out, diaphragm relaxes

Internal respiration is the exchange of gases within the cells of the body.

# Careers related to Respiratory System

Pulmonologist-doctor that specializes in the diagnosis & treatment of the lungs.

Respiratory Therapist-treats patients with lung problems by administering oxygen or treatments under the supervision of a physician.

# Lung Diseases

COPD- group of conditions which is characterized by chronic impairment of airflow.

• asthma- breathing difficulty, due to swelling of the airways. Treated with bronchodilators.

Emphysema-decreased lung function, destruction of the alveoli.

### Respiratory Diseases

allergies": allergic rhinitis- Allergic reaction to airborne allergens.
 Influenza-viral respiratory infection. Spread by droplet( cough & sneezing).
 Pneumonia-inflammation of the lungs in which the air sacs fill with pus & other fluid.

Operation Cystic Fibrosis-genetic disease which causes the lungs to be clogged with abnormally large amounts of thick mucus.

### Procedures

Bronchoscopy
 Spirometry- tests to record amount of air inhaled & exhaled.
 Chest xrays- will show pneumonia, tumors, emphysema.

### Treatments

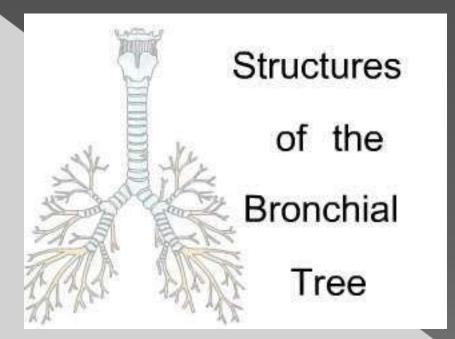
Bronchodilators- opens the lungs, used to treat asthma.
Oxygen
Ventilators
Thoracotomy-surgical incision into the chest.

### **Respiratory Safeguards**



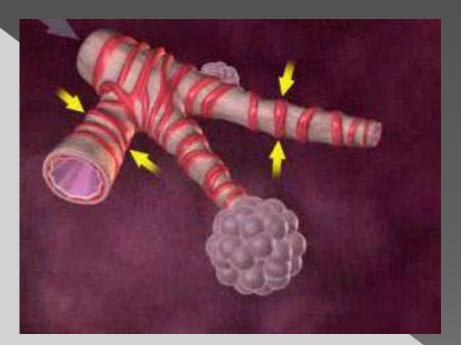
Click Here to play Respiratory Safeguards animation

### Structures of the Bronchial Tree



<u>Click Here to play Structures of</u> <u>the Bronchial Tree animation</u>





Click Here to play Asthma animation

# **S**moking

#### https://www.youtube.com/watch?v=ysk YG-EVIBY

#### Ohttps://www.youtube.com/watch?v=ysk YG-EVIBY