FUNCTIONS:

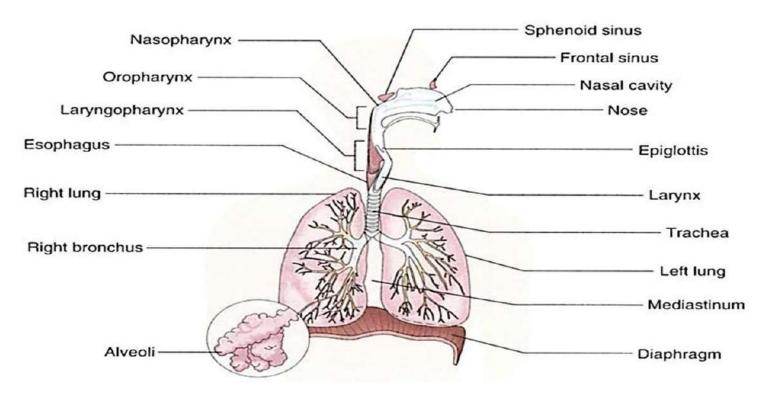
1.

2.

3.

STRUCTURES

The respiratory system is categorized into 2 regions: the _____ and _____tracts.

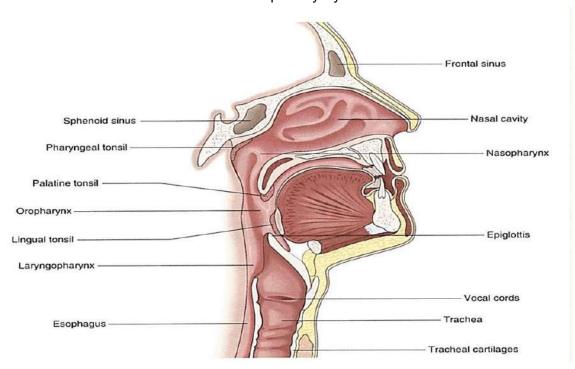


A. Upper Tract

a. Nose

- i. Nasal cavity-
- ii. Septum-
- iii. Mucous membrane- layer of thin tissue that lines the nose and entire respiratory system
- iv. Mucus-
- v. Cilia-
- vi. Olfactory receptors-

The Respiratory System



b. Tonsils-

- c. **Sinuses** An air-filled cavity within a bone that is lined with mucous. They affect:
 - i. Paranasal sinuses:

Table 7.1

PARANASAL SINUSES

Maxillary sinuses (MACK-sih-ler-ee), located in the maxillary bones, are the largest of the paranasal sinuses.

The **ethmoid sinuses** (**ETH-**moid), located in the ethmoid bones, are irregularly shaped air cells that are separated from the orbital (eye) cavity only by a thin layer of bone.

Frontal sinuses are located in the frontal bone just above the eyebrows.

The **sphenoid sinuses** (**SFEE**-noid), located in the sphenoid bone, are close to the optic nerves. An infection here can damage vision.

- d. **Pharynx**= THROAT.
- e. Divided into three divisions known as:
 - i. Nasopharynx:
 - ii. Oropharynx:
 - iii. Laryngopharynx:

a. Protective Swallowing Mechanisms:

Epiglottis- A flap that closes off the larynx when swallowing to prevent _____.

- ii. Soft Palate closes off the ______ to prevent food from going up into the nose.
- b. Larynx= voice box; "LA LA LA!"
- i. It is held open by a series of_____ (the most prominent

protrusion is known as the Adam's apple)

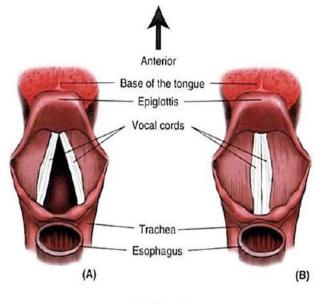
- ii. Contains ______, which

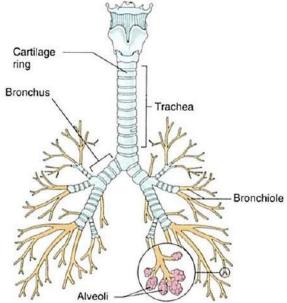
 vibrate against one another to produce speech as air is

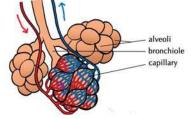
 _____ from the lungs.
- c. **Trachea**= WINDPIPE; Extends from ______ to

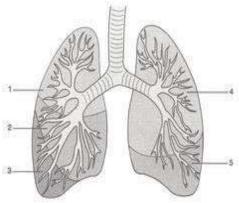
_____·

- i. Where air passes from the URI to the LRI (lungs).
- ii. Passes directly in front of the _____.
- iii. Held open by rings of cartilage.









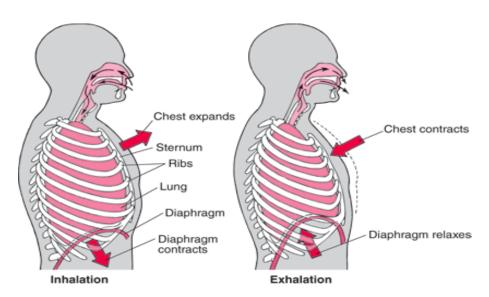
B. <u>Lower Tract</u>

- a. Bronchial Trees the lower, two divisions of the _____.
 - i. Insert into the:
 - ii. Bronchioles-
- b. Alveoli:
- c. Lungs: Consists of 2 divided lobes(R/L). Label sections:

The Respiratory System

B. Additional Structures

- a. Mediastinum/Interpleural space-
- b. Pleura- A _____ that surrounds each lung with blood vessels. 3 layers:
 - i. Parietal pleura-
 - ii. visceral pleura-
 - iii. pleural space/pleural cavity-
- c. Diaphragm- A MUSCLE that makes _____ possible!
 - *The **phrenic nerve** controls diaphragm contraction



RESPIRATION

Respiration:

External respiration-

VS.

Internal respiration-

The Respiratory System

Other Key Terms to Respiration:	
•	Breathing:
•	Inhalation:

• Exhalation: