

Respiratory System

Functions & Components

Functions:

- Provides a lot of surface area for gas exchange
- Moves air in and out of the lungs
- Protects and defends itself
- Produces sounds
- Olfaction

Two Systems:

- Upper Respiratory System
 - nose, nasal cavity, sinuses, & pharynx
- Lower Respiratory System
 - larynx, trachea, bronchi, bronchioles, & alveoli

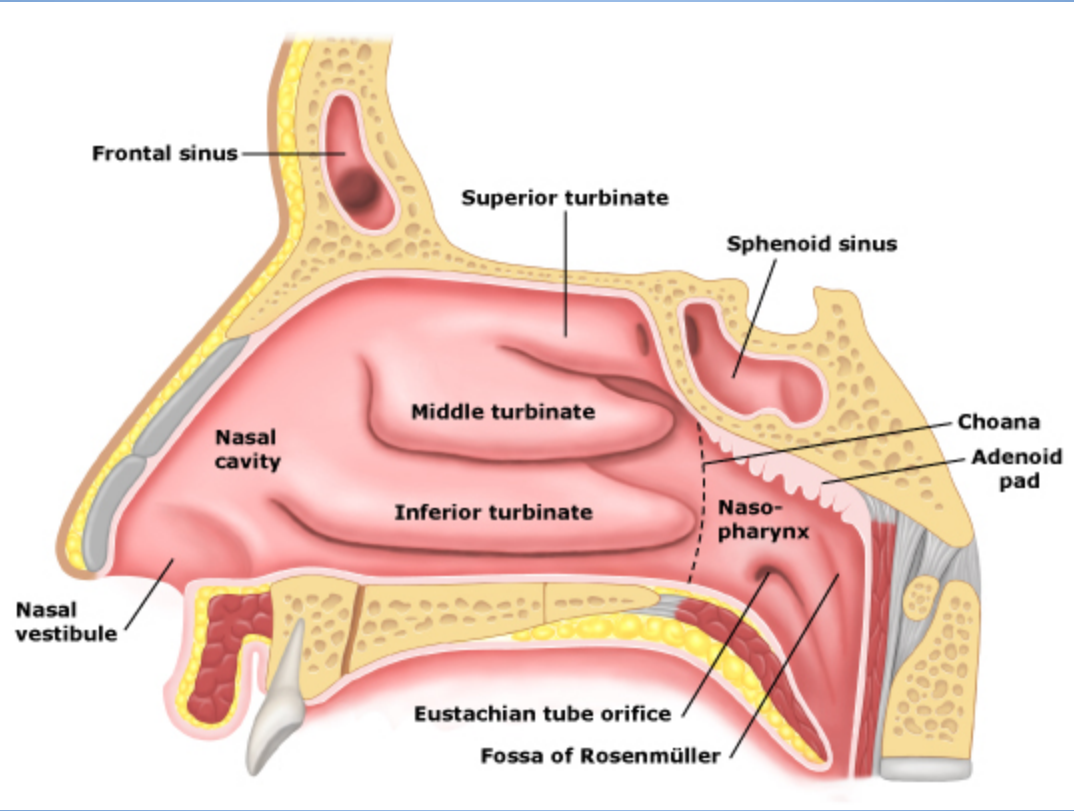
Nose

- Primary passageway for air to enter the respiratory system
- External Nares
- Nasal Vestibule
- Nasal Septum



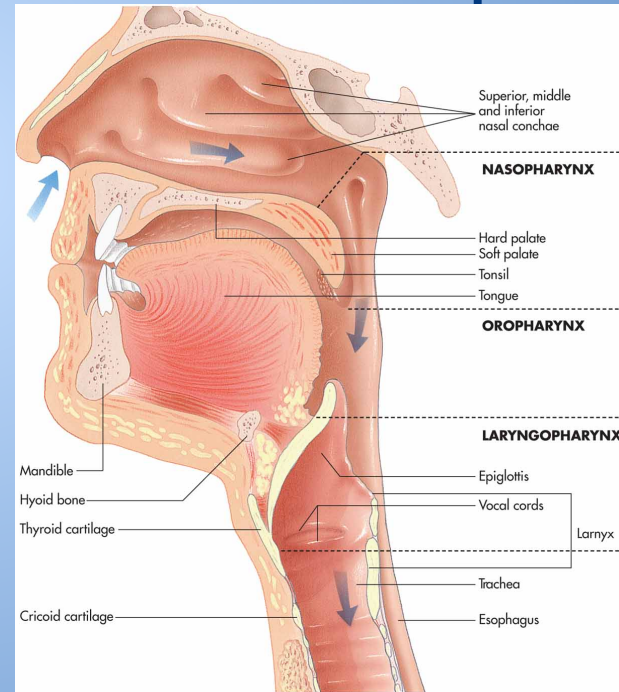
Nasal Cavity & Sinuses

- Paranasal sinuses produce mucus to keep area moist
- Superior portion is where the olfactory epithelium is found
- Inferior, middle, & superior nasal conchae



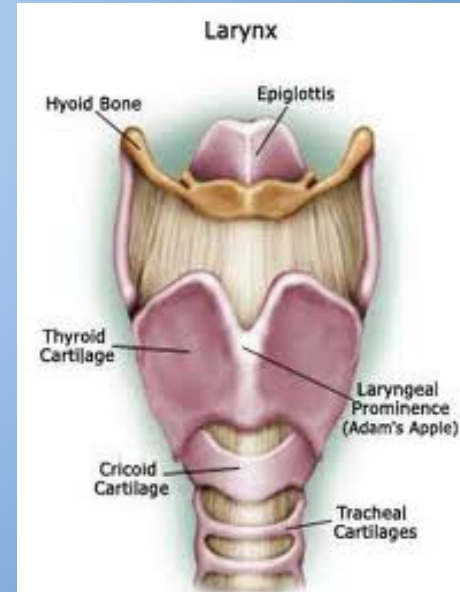
Pharynx

- Shared between digestive and respiratory system
- Nasopharynx
- Oropharynx
- Laryngopharynx



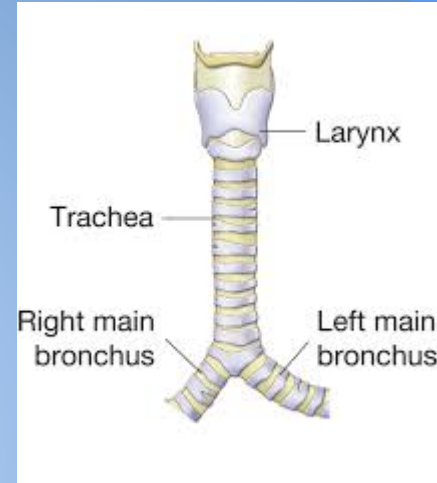
Larynx

- The glottis
- Cartilaginous ring that protects the glottis
- The space between the pharynx & the trachea
- Phonation



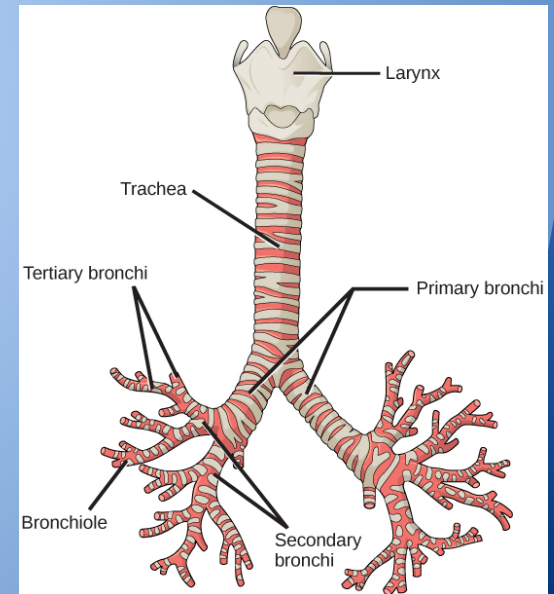
Trachea

- Windpipe
- Smooth Muscle
- Tracheal cartilages (rings)
- Branches into the right and left primary bronchi



Bronchi

- Primary Bronchi
 - Main branches off the trachea that enter the right and left lungs
- Secondary Bronchi
 - Enters each lobe of the lung
- Tertiary Bronchi
- Bronchioles



Alveoli

- Responsible for the lungs spongy appearance
- Produce a surfactant
- Defense
- Gas Exchange

