

Respiration Ted Ed Lungs

1. Respiratory System Responsibilities

- A. Removing waste product of cellular respiration (CO₂)
- B. Taking in gas (O₂) necessary for ATP formation via electron transport chain

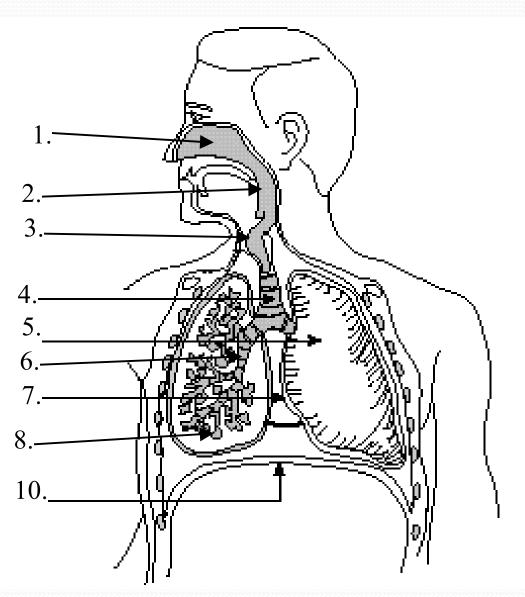
II. Divided into four areas

A.	Breathing	the movement of air into and out of the lungs
B.	External Respiration	the exchange of O ₂ and CO ₂ between AIR and BLOOD.
C.	Internal Respiration	the exchange of O ₂ and CO ₂ between BLOOD and TISSUE FLUID
D.	Cellular Respiration	the process which produces ATP in mitochondria \rightarrow requires O_2 and releases CO_2

Anatomy, Alveoli Structure/Function

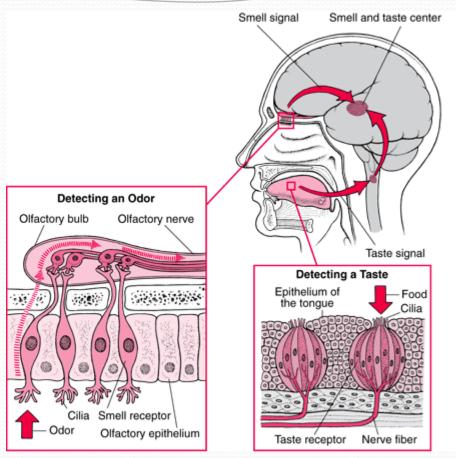
I. Anatomy of Breathing

	Name	
1	nasal cavity	
2	pharynx	
3	larynx	
4	trachea	
5	lung	
6	bronchi	
7	pleura membrane	
8	alveoli	
9	bronchioles	
10	diaphragm	



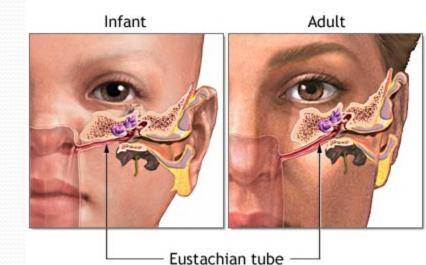
A. Nasal Cavity

- 1. NOSE contains two
 nasal cavities which
 contains narrow canals
 with convoluted lateral
 walls that are
 separated from one
 another by a septum
- 2. Contains special ciliated cells that act as scent receptors located at the top recesses of the nasal cavities



3. Nasal cavities are connected by tubes to the tear ducts and to the ears via the eustachian tubes

- 4. Air enters the nasal passages
 - a. Air is filtered by the hairs and cilia that trap dust and debris
 - b. Air is warmed
 - c. Air is moistened







B. Pharynx

- Common passage for respiratory and digestive systems
- 2. Above the epiglottis
- 3. When swallowing food, the epiglottis covers the glottis.

