Name: _____ Group: _____ Date: _____

CONCEPT REVIEW 28

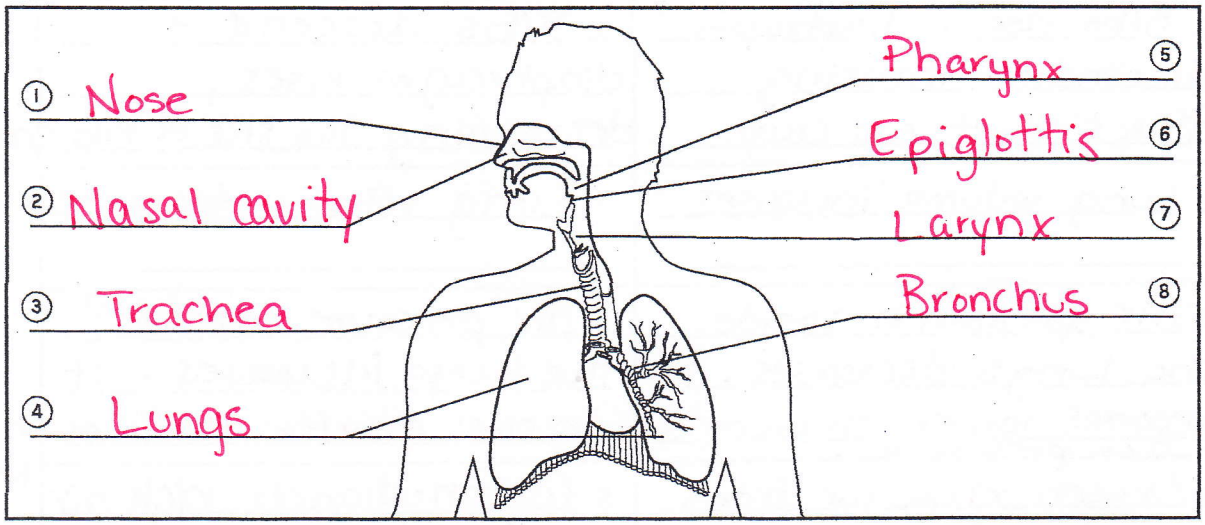
THE RESPIRATORY SYSTEM

PAGES 172 TO 174
Complete this concept review handout and keep it as a record of what you have learned.

FUNCTION OF THE RESPIRATORY SYSTEM

The respiratory system is responsible for exchange of oxygen + carbon dioxide between the body + the external world.

ANATOMY OF THE RESPIRATORY SYSTEM



STRUCTURES OF THE RESPIRATORY SYSTEM

Structure	Function
Nasal passages	Filter air with hairs that coat lining Warm + moisten air with mucus
Pharynx (throat)	Carries air toward trachea + food toward the esophagus
Larynx	Carries Air Produces sound (voice)
Trachea	Filters + purifies air with cilia on trachea wall warms / moistens air
Bronchi	Carry air into lungs
Lungs	Ensure gas exchange between the body + the external world

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CONCEPT REVIEW 29

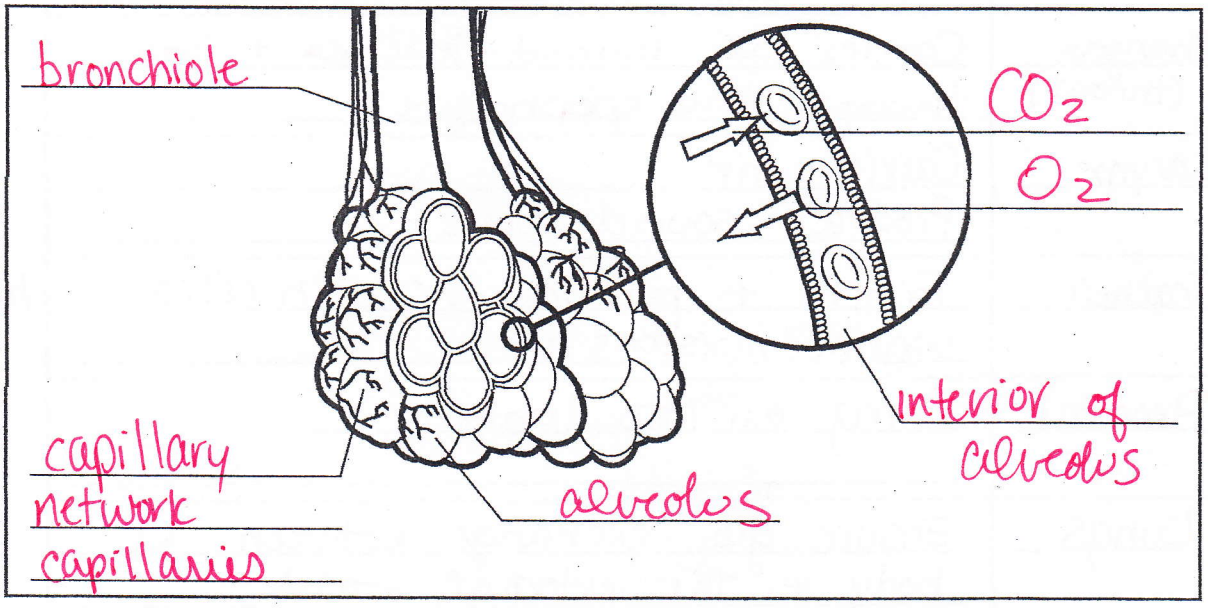
RESPIRATION

PAGES 174 TO 176
Complete this concept review handout and keep it as a record of what you have learned.

MECHANICS OF RESPIRATION

Inhalation	Exhalation
1. Intercostal muscles and diaphragm contract.	1. Intercostal muscles & diaphragm relax
2. Ribs rise + diaphragm descends, increasing the size of rib cage	2. Ribs descend + diaphragm rises, decreasing the size of rib cage
3. Lung volume increases	3. Lung volume decreases
4. Air pressure inside the lungs decreases. It becomes lower than outside air pressure.	4. air pressure inside the lungs increases. It becomes greater than outside air pressure
5. Oxygen-rich air from outside flows into the lungs until the pressure inside & outside the lungs is equal	5. Carbon-dioxide rich air inside the lungs flows outside until the pressure inside & outside the lungs is equal.

GAS EXCHANGE WITHIN THE LUNGS



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