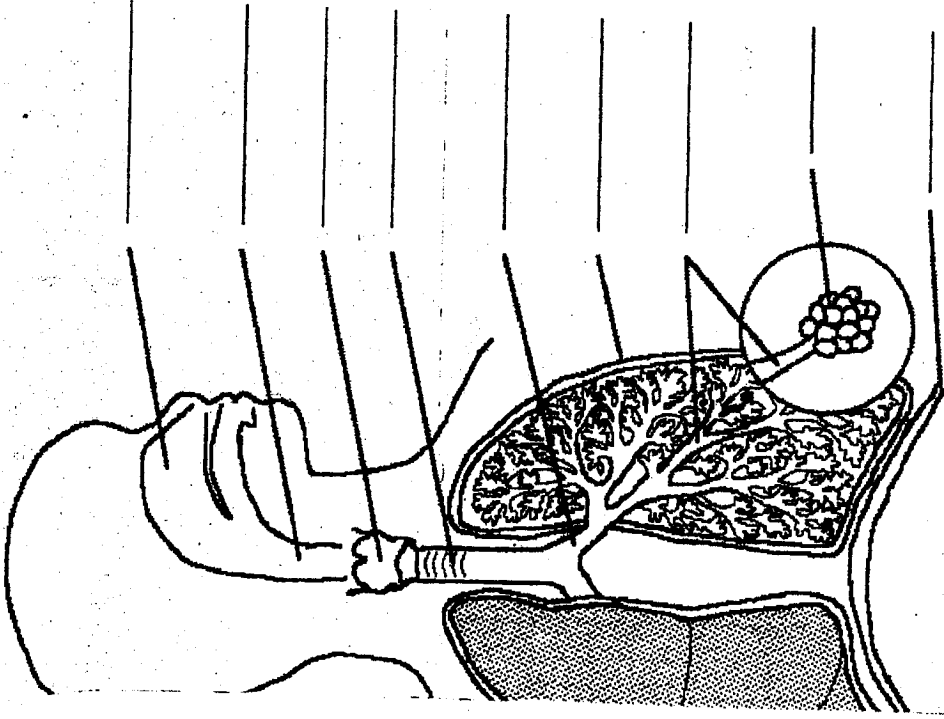


Respiratory System



alveoli	larynx (voice box)	bronchial tube
diaphragm	pharynx (throat)	bronchiole
pleura	trachea (windpipe)	nasal passage

The Respiratory System

Title: Lung Capacity _____
Purpose: _____

Procedure: Using a balloon and a conversion chart, determine your tidal and vital lung capacity.

Hypothesis: _____

Trail	Tidal Capacity		Vital Capacity	
	Balloon Diameter (cm)	Volume of Air (cc)	Balloon Diameter (cm)	Volume of Air (cc)
1				
2				
3				
4				
5				
Average				

Conclusions:

1. What is meant by the term "lung capacity"?
2. How did your tidal and vital lung capacity differ? Why might you see that difference?
3. Compare your data to other members of your group. How can you account for these differences?
4. How might an athlete's vital lung capacity compare to a non-athlete?
5. How would a habit like cigarette smoking affect your lung capacity?
6. What types of surroundings might affect your lung capacity in a negative or positive way?

Organs of the Respiratory System:

1. Nose and _____
1. Passageway into respiratory system
2. Helps to _____ air _____ (Throat)
1. Transports _____, _____, and _____
2. _____ and _____
3. _____ (Voice Box) stretched across larynx opening
4. _____ (Wind Pipe)
1. Air travels from larynx to lungs
2. Covered in _____/Bronchial Tubes for protection
5. 1. _____ tubes split off from trachea
2. One Tube goes to each _____
3. Split up into tiny tubes _____ (Air Sacks)
6. 1. Tiny sacks branch off _____
2. Create large surface area for _____
3. Surrounded by _____ - _____ enters bloodstream and _____ exits.

7. Breathing and Respiration

1. _____ - Body obtains and uses oxygen and gets rid of carbon dioxide and water
2. There are two parts to respiration:

1. _____ - Inhaling and Exhaling
2. _____ chemical reaction that releases energy from food

FORMULA - _____ + _____ => _____ + _____

How do we breathe?

1. _____ - muscle moves down _____ and lungs expand- air sucked in
2. _____ - Air moves out automatically— No energy required for this