

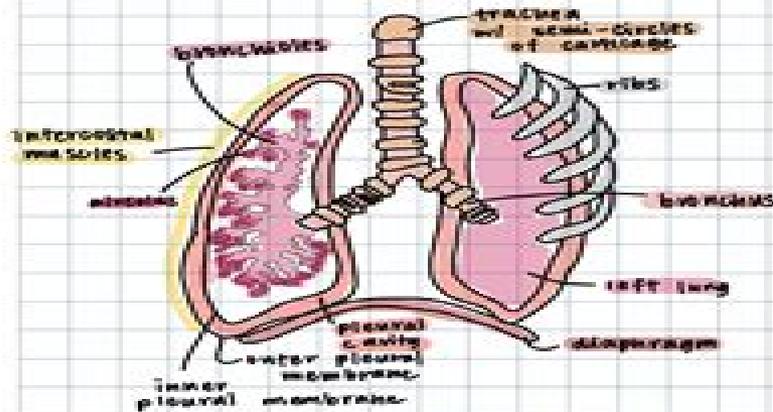
Mechanism of ventilation

negative pressure breathing

breathing in / inspiration / inhalation
external intercostal muscles contract
internal intercostal muscles relax
moves ribcage up and out
diaphragm flattens + contracts
increase volume of the thorax
decrease pressure inside thorax $<$ atm
 \rightarrow air is drawn in

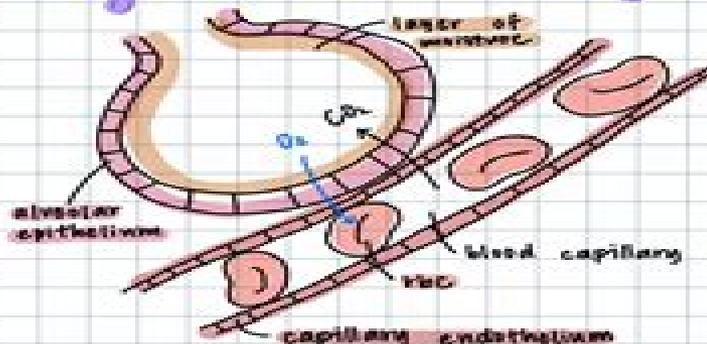
breathing out / expiration / exhalation
internal intercostal muscles contract
external intercostal muscles relax
moves ribcage down and in
diaphragm relaxes
decrease volume of the thorax
increase pressure inside thorax $>$ atm
 \rightarrow air is pushed out

the human breathing system



- lungs are enclosed in the thorax
 \rightarrow airtight compartment
- pleural membranes surround each lung + line thorax
pleural cavity contains pleural fluid
 \rightarrow lubricant, prevent friction during ventilation
- diaphragm: dome shape muscle
separates thorax from the abdomen
- ribs surround thorax
- intercostal muscle between ribs
- trachea: flexible airway
- bronchi: branches of the trachea
- bronchiole: branches of bronchi
- alveoli: air sacs at the end of bronchiole

gas exchange across alveoli



- human lungs contain \approx 600 million alveoli w/ combined total SA of $90m^2$
- the alveolar wall is one cell thick
- O_2 diffuses alveolar epithelium \rightarrow blood

the conc. gradient of O_2 is maintained.
• ventilation: maintains high conc. of O_2 in the alveoli
• flow of blood through dense capillary network around the alveoli
oxygenated blood \rightarrow deoxygenated blood

Anatomy Physiology Notes Ch 13 The Respiratory System

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