

Umaning 2.0
CBSE X

CHAPTER LIVE
LIFE PROCESS

Respiration

AMRIT SIR

9% 10%

Vedantu

"We are what
we REPEATEDLY DO.

Excellence,
therefore, is not
an act, but a
HABIT."

-Aristotle



Amidst the Corona Outbreak,
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of your home**



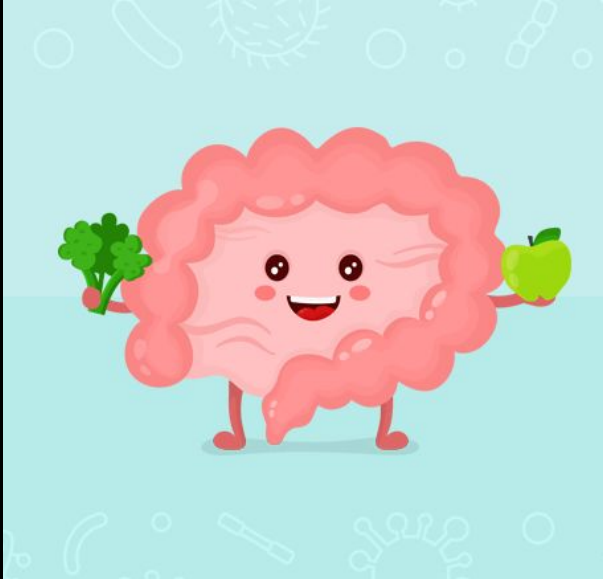
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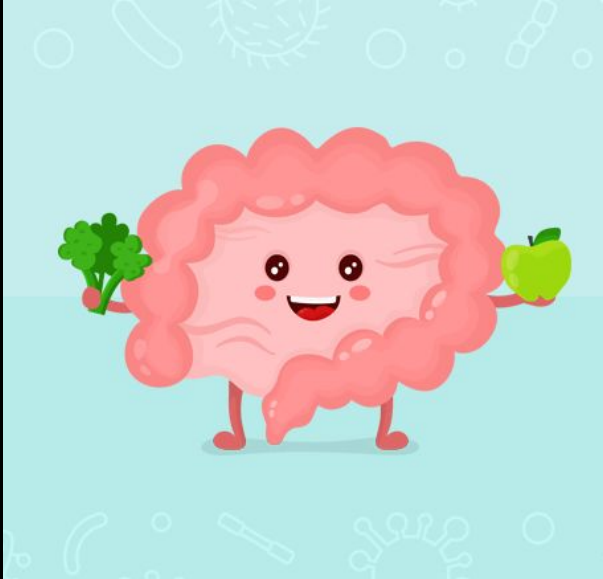
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Q. Why does the hydrochloric acid in your stomach not damage your stomach walls?



Q. Why does the hydrochloric acid in your stomach not damage your stomach walls?

The large amounts of mucus secreted by the gastric glands protects the stomach lining from any possible damage by the HCl.

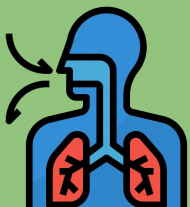


Let's understand...

Types of Respiration

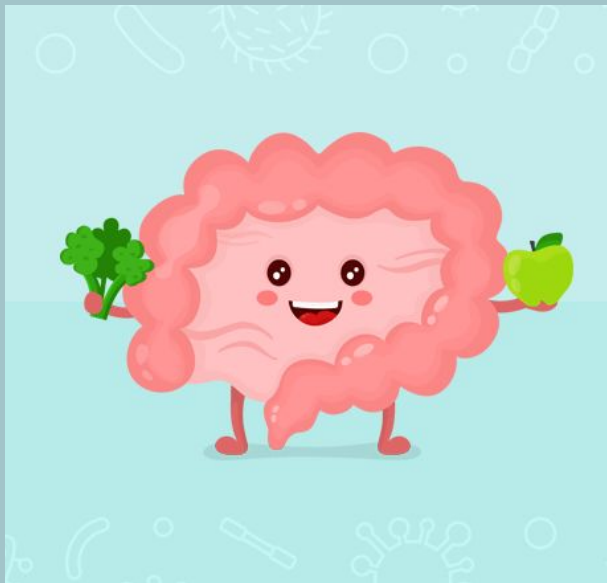
Mechanism of Breathing

Human Respiratory System





End products of digestion



Carbohydrates



Glucose

Proteins



Amino acids

Fats



Fatty acids

+

Glycerol

Among the end products of digestion, **glucose** is the best source of energy and hence, forms the base of respiration.



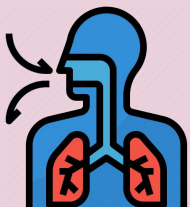
What is Respiration?

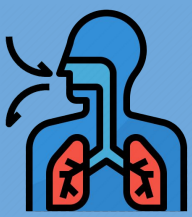
Glucose



Energy

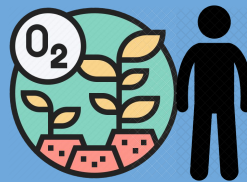
The breakdown of glucose to release energy in living cells is called respiration.





Types of Respiration

Aerobic

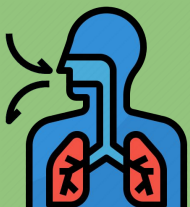
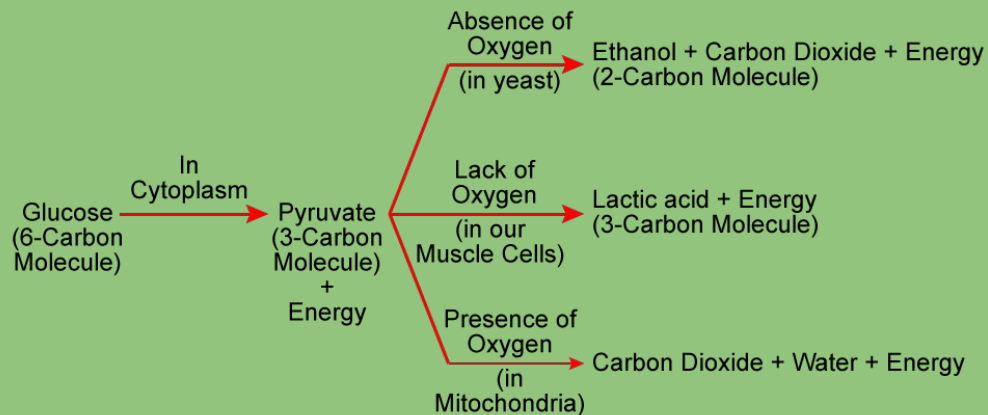


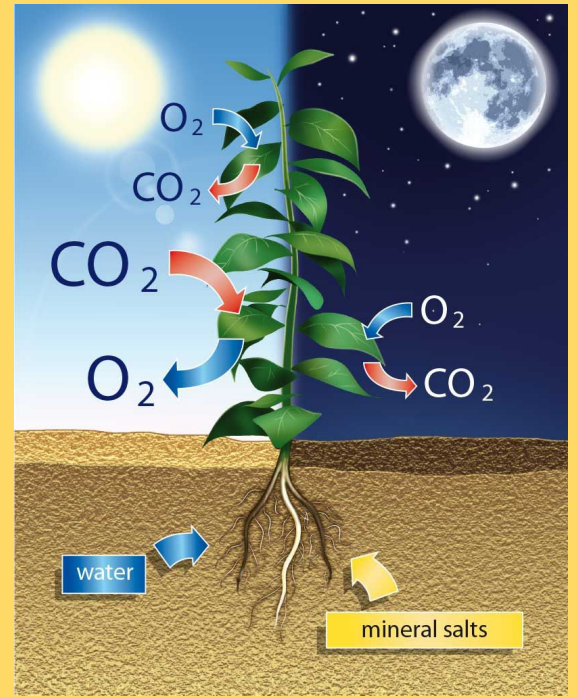
Anaerobic



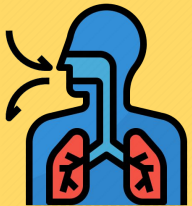


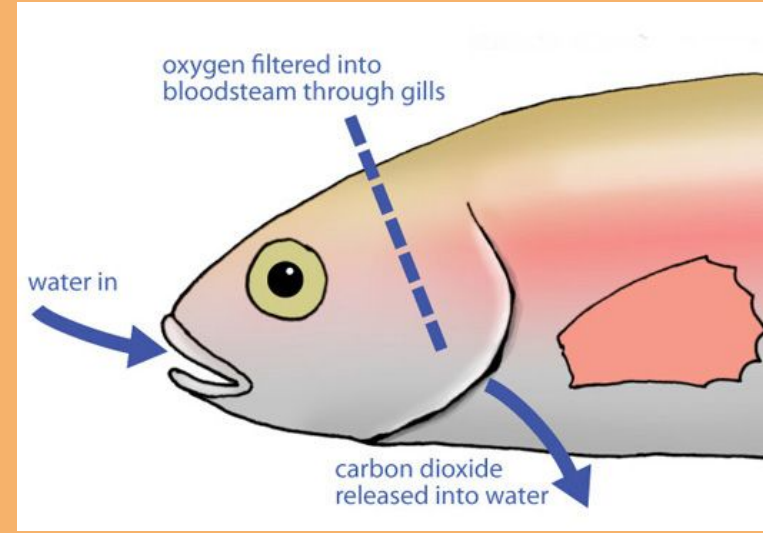
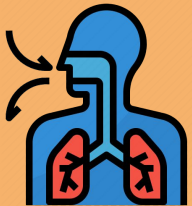
Steps in Respiration





In plants, respiration occurs all the time, while photosynthesis occurs only during the day.



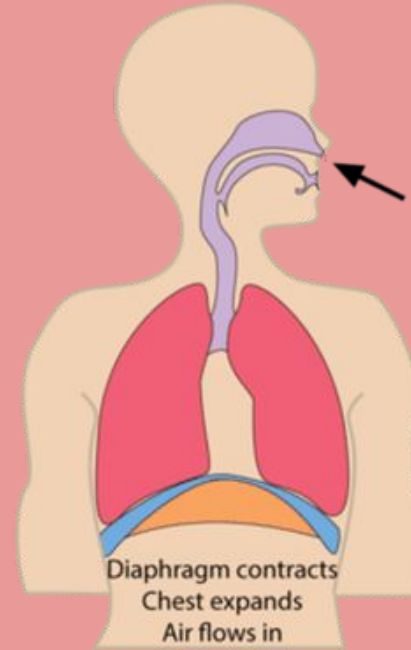


- Aquatic organisms use **oxygen dissolved in water** to breathe.
- The amount of dissolved oxygen is fairly low compared to the amount of oxygen in the air. Thus, the **rate of breathing in aquatic organisms is much faster** than that of terrestrial.

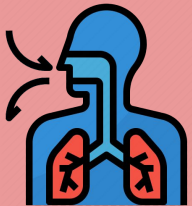
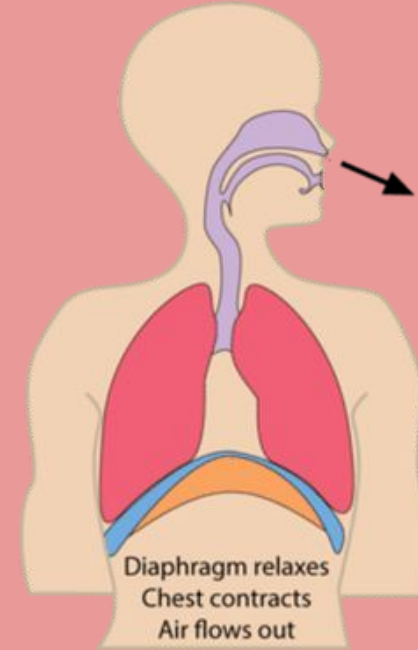


Mechanism of Breathing in Humans

Inhalation

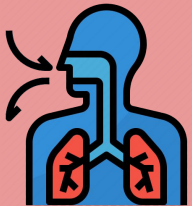
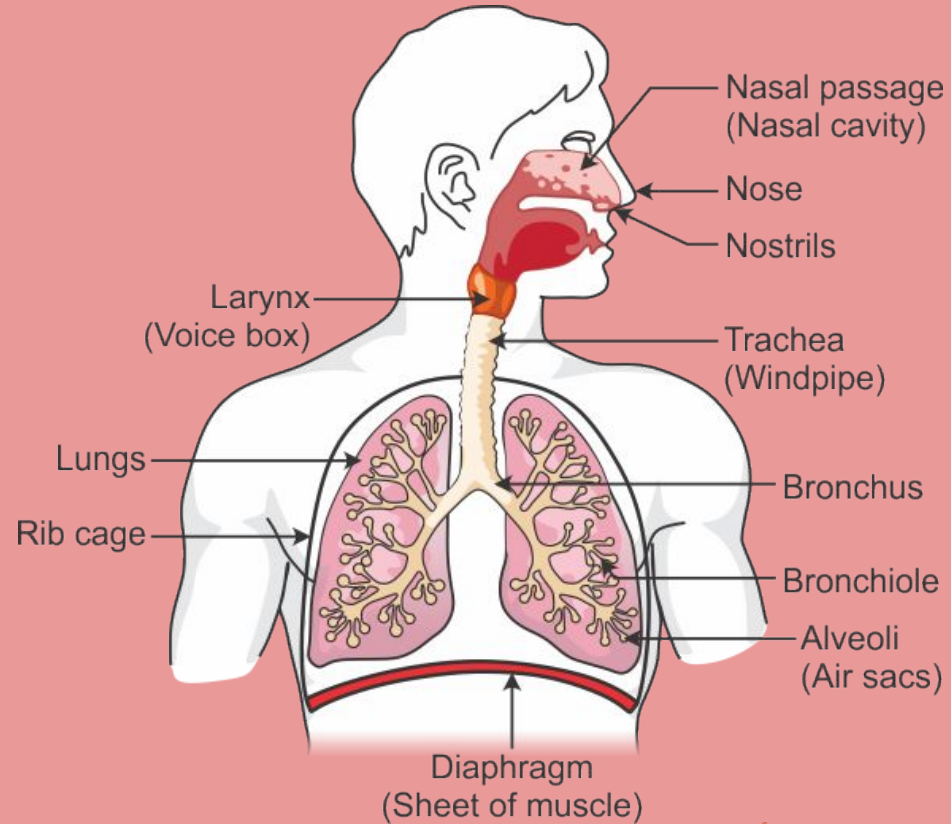


Exhalation



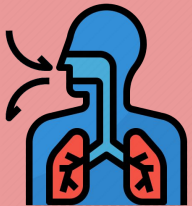
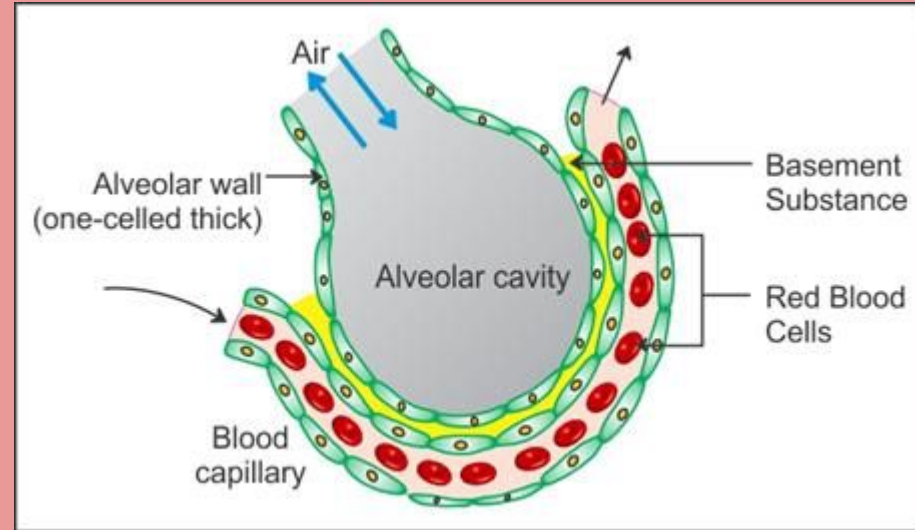


Human Respiratory System



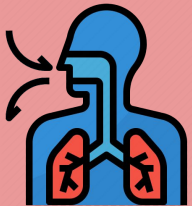
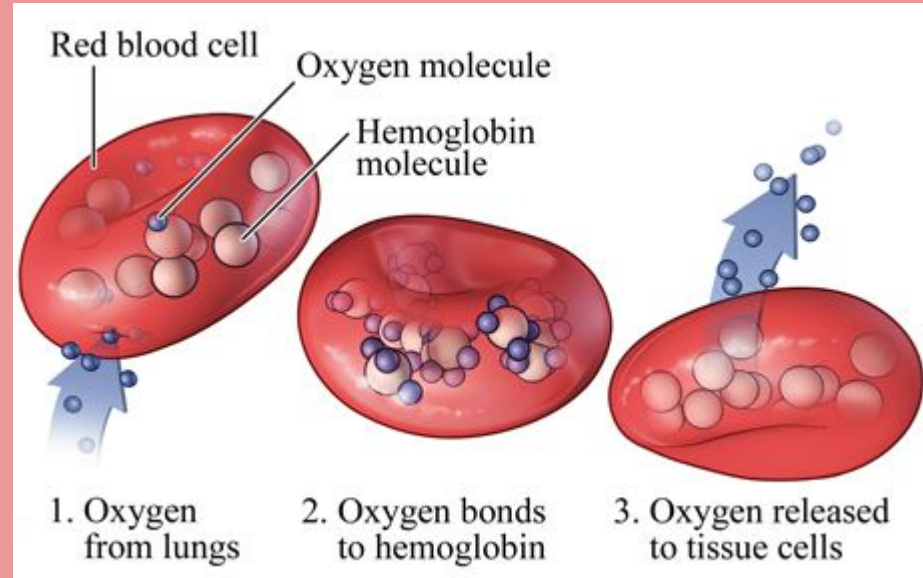


Structure of an Alveolus





Oxygen Transport in the Human Body





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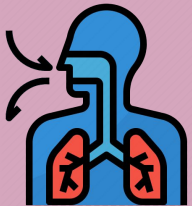
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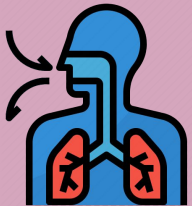
Q. Glucose to pyruvate conversion occurs in the

A. Cytoplasm

B. Mitochondria

C. Nucleus

D. Ribosome





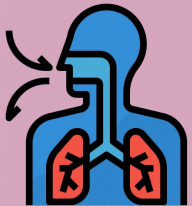
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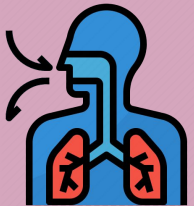
Q. The muscle that separates the thoracic cavity from the abdominal cavity is:

A. Cardiac muscle

B. Rib cage

C. Diaphragm

D. Lungs





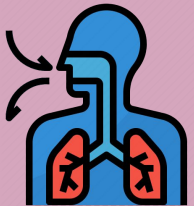
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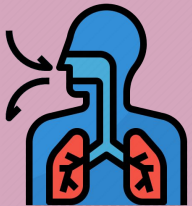
Q. During inhalation, the diaphragm

A. Moves downward

B. Moves upward

C. Stays as such

D. is not involved





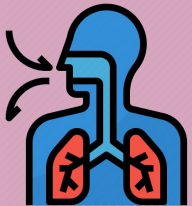
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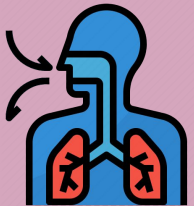
Q. Gas exchange occurs in

A. Bronchi

B. Alveoli

C. Bronchioles

D. Trachea





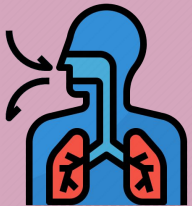
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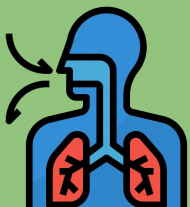


You now know...

Types of Respiration

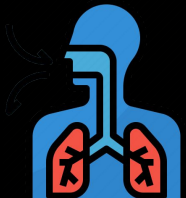
Mechanism of Breathing

Human Respiratory System





Q. Why are human red blood cells biconcave shaped?





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