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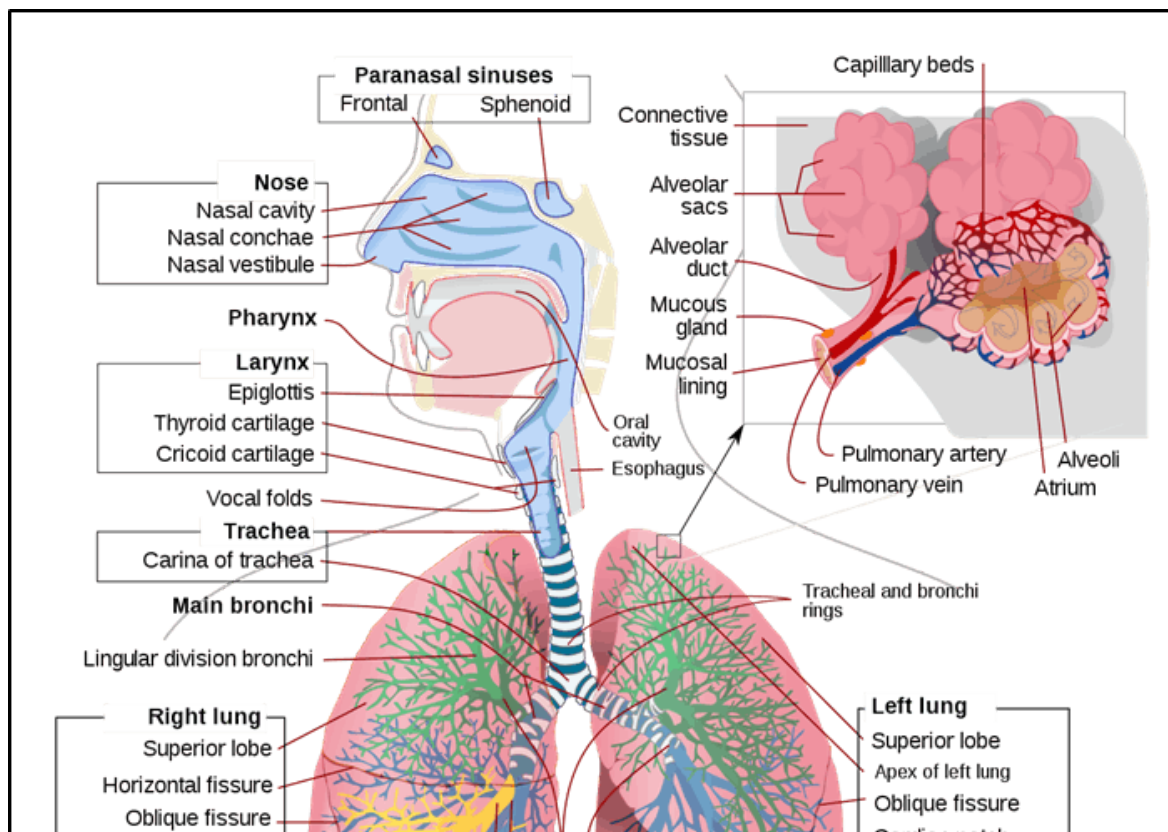
Respiration: Meaning of Respiration, Human Respiratory System (For CBSE, ICSE, IAS, NET, NRA 2022)

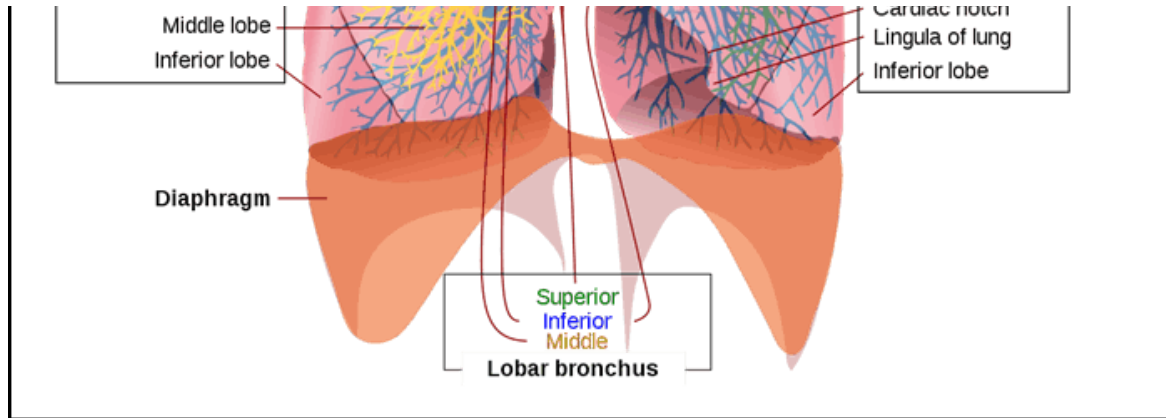
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Meaning of Respiration

- It is a metabolic process carried out in all living species.
- The nutrients are converted into useful energy within the cell.
- There is a production of energy with the intake of oxygen and the release of carbon dioxide within the same process.
- Insects and worms do not have lungs to perform respiration.
- Lungs are the primary respiratory organ in animals like birds, lions, cows, elephants, snakes, including humans.

Human Respiratory System

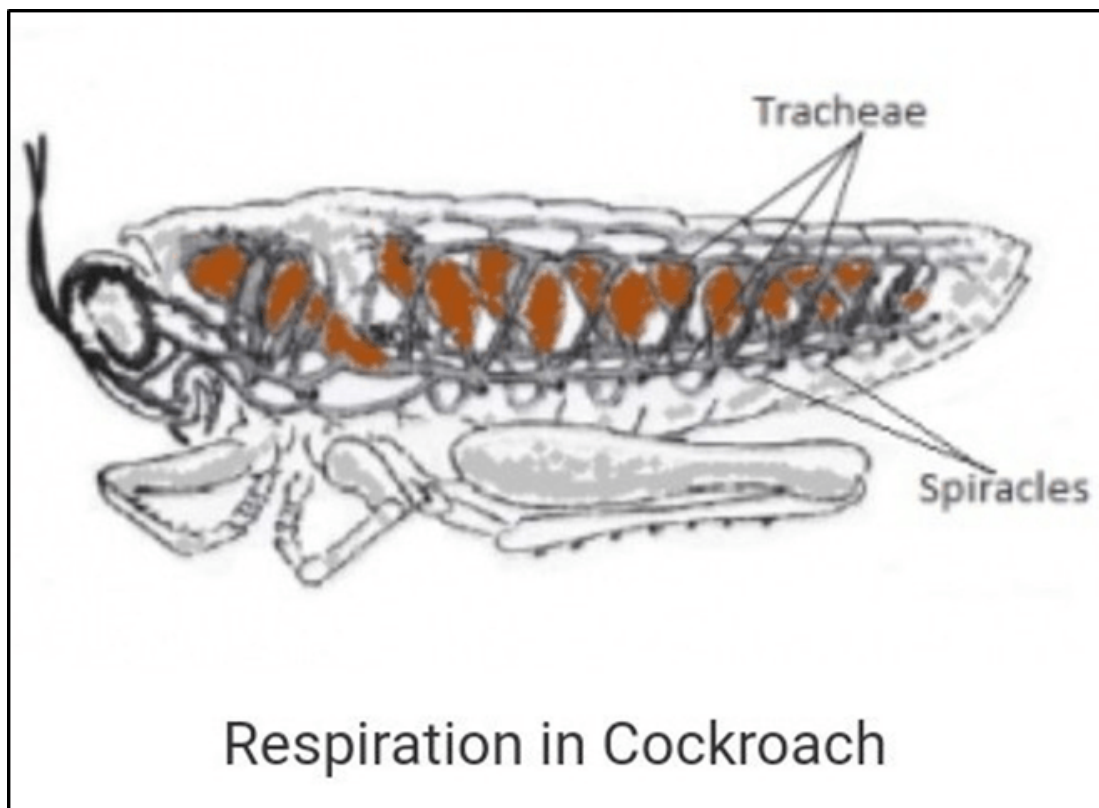




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Cockroach

- Respiration occurs through spiracles in cockroach.
- Spiracles are the small openings on the sides of the body.
- Trachea is the respiratory organ of cockroach.
- Trachea is also a dense array of a network of air tubes found in the internal system.
- The pressure inside the system is balanced by trachea.
- The oxygen rich air (enters through spiracles) diffuses into various tissues and cells of the body.
 - Oxygen is used for liberating energy.
- Carbon-dioxide rich air passes into the trachea.
 - Moves outward through spiracles.
- It is due to the respiratory process the carbon dioxide is given out.

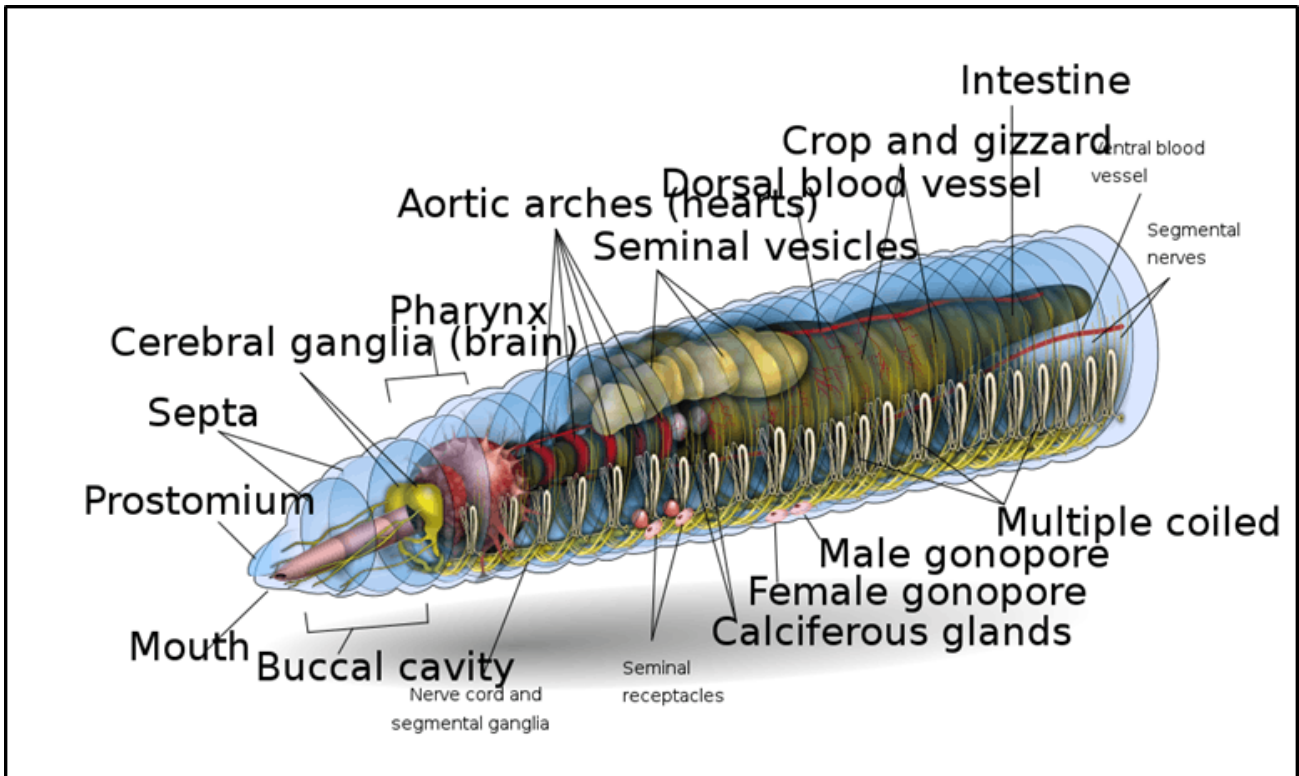


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Earthworm

- Earthworms do not have any special respiratory organs.
- The skin feels moist and they are called slimy creatures.
- The skin is the breathing organ in earthworms.
- Air can easily pass through the skin of an earthworm.
- Through the moist skin and capillaries, the exchange of gases takes place.

- The hemoglobin dissolved in the blood picks up the oxygen and the carbon dioxide are released.
- The skin is also used to move water and salts by active transport.
- The earthworm's skin must be kept moist for diffusion to occur.



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