

CLASS 11

BIOLOGY

REVISION NOTES

## Class 11 Biology Chapter 14 Breathing and Exchange of Gases – Revision Notes

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Quick revision notes for Class 11 Biology Chapter 14 (Breathing and Exchange of Gases). These Class 11 Biology Chapter 14 notes are ideal for quick revision just before exams.

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## Respiratory Pathway

Nostrils → pharynx → larynx → trachea → bronchi → bronchioles → alveoli.

## Breathing Mechanism

Inspiration: diaphragm contracts, thoracic volume up, pressure down.

Expiration: diaphragm relaxes, volume down, pressure up.

## Gas Transport

O<sub>2</sub>: ~97% via haemoglobin (oxyhaemoglobin).

CO<sub>2</sub>: ~70% as bicarbonate, ~20-25% carbaminohaemoglobin.

## Regulation

Respiratory rhythm centre (medulla oblongata); primarily CO<sub>2</sub>-sensitive.

## One-Line Summary

Breathing moves air through the respiratory tract to the alveoli, where O<sub>2</sub> and CO<sub>2</sub> are exchanged by diffusion and transported in blood, with breathing rate regulated mainly by blood CO<sub>2</sub> levels via the medulla oblongata.

## Class 11 Biology Chapter 14 – Solutions and Important Questions

Need full answers or more practice? See the [Class 11 Biology Chapter 14 Solutions](#) and [Class 11 Biology Chapter 14 Extra Questions](#).

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