

CBSE • CLASS 9 • SOCIAL SCIENCE

SOCIAL SCIENCE

CHAPTER 03

Atmosphere and Climate



NCERT SOLUTIONS



ATMOSPHERE & ITS COMPOSITION

Q1. What is atmosphere? Explain its composition with the help of a pie diagram.

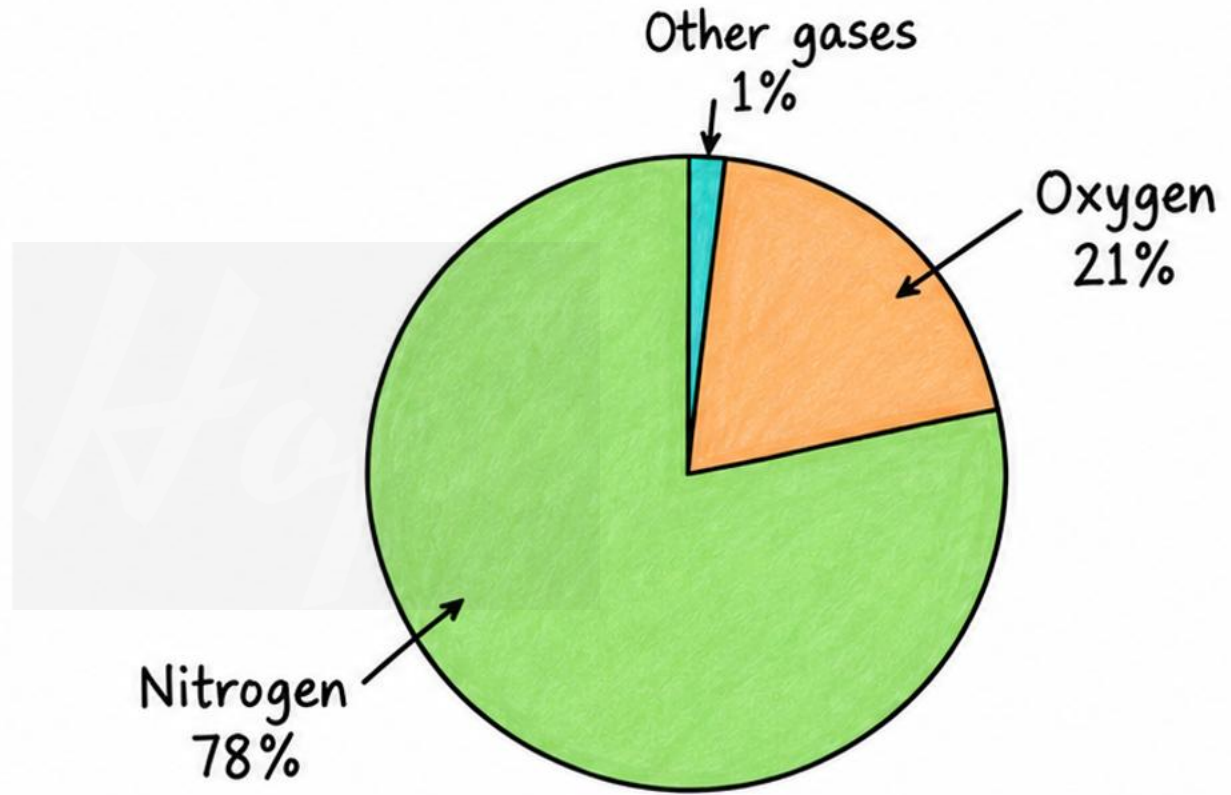
The atmosphere is the blanket of gases surrounding the Earth. Gravity holds it around our planet.

Composition of dry air:

- Nitrogen: 78%
- Oxygen: 21%
- All other gases together: 1%

The other gases include argon (0.93%), carbon dioxide (0.04%) and other trace gases (0.03%).

Air also contains water vapour and dust. The amount of water vapour varies.

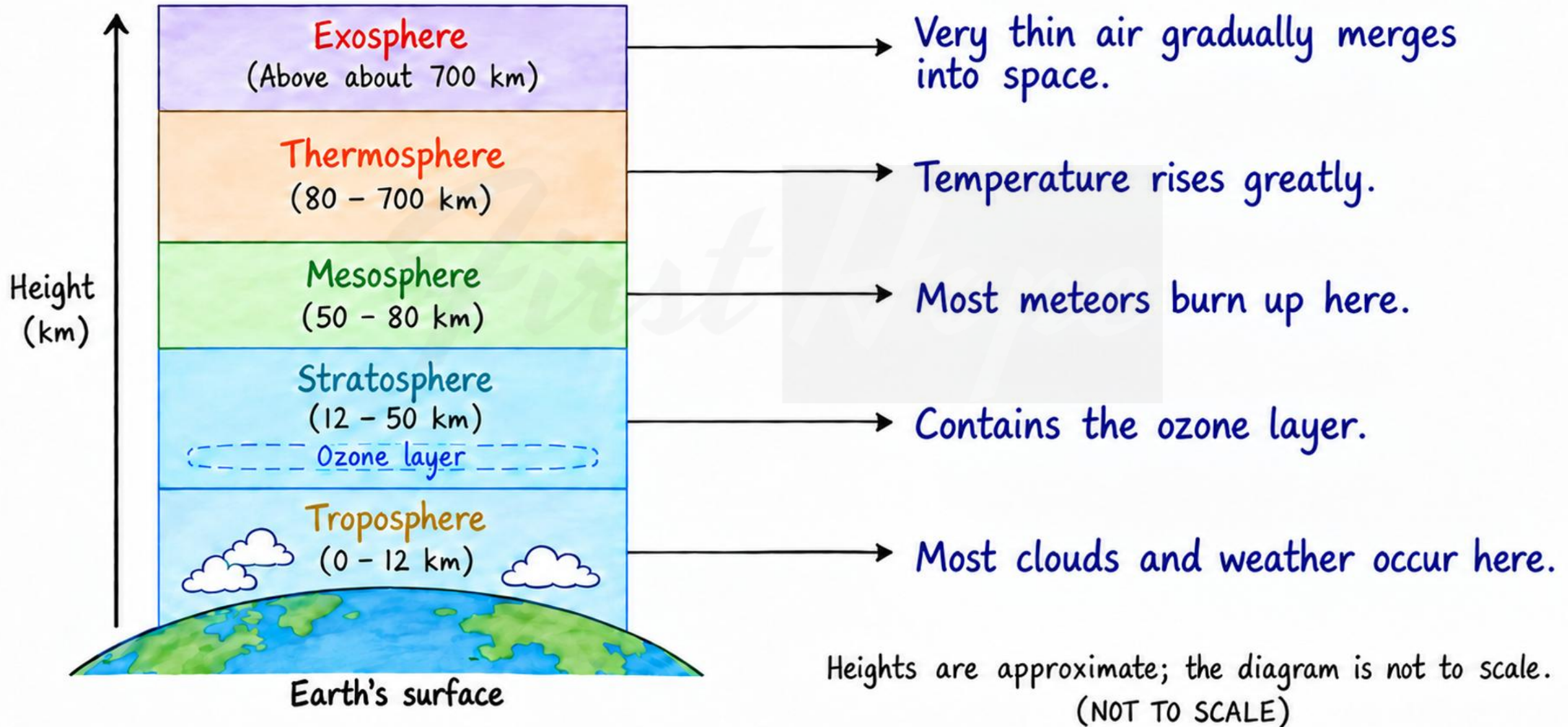


Other gases include:

Argon: 0.93%
Carbon dioxide: 0.04%
Other trace gases: 0.03%

LAYERS OF THE ATMOSPHERE

Q2. Draw a labelled diagram of the structure of atmosphere.



FOUR MAIN SEASONS OF INDIA

Q3. Which are the four main seasons of India?

The four main seasons are:



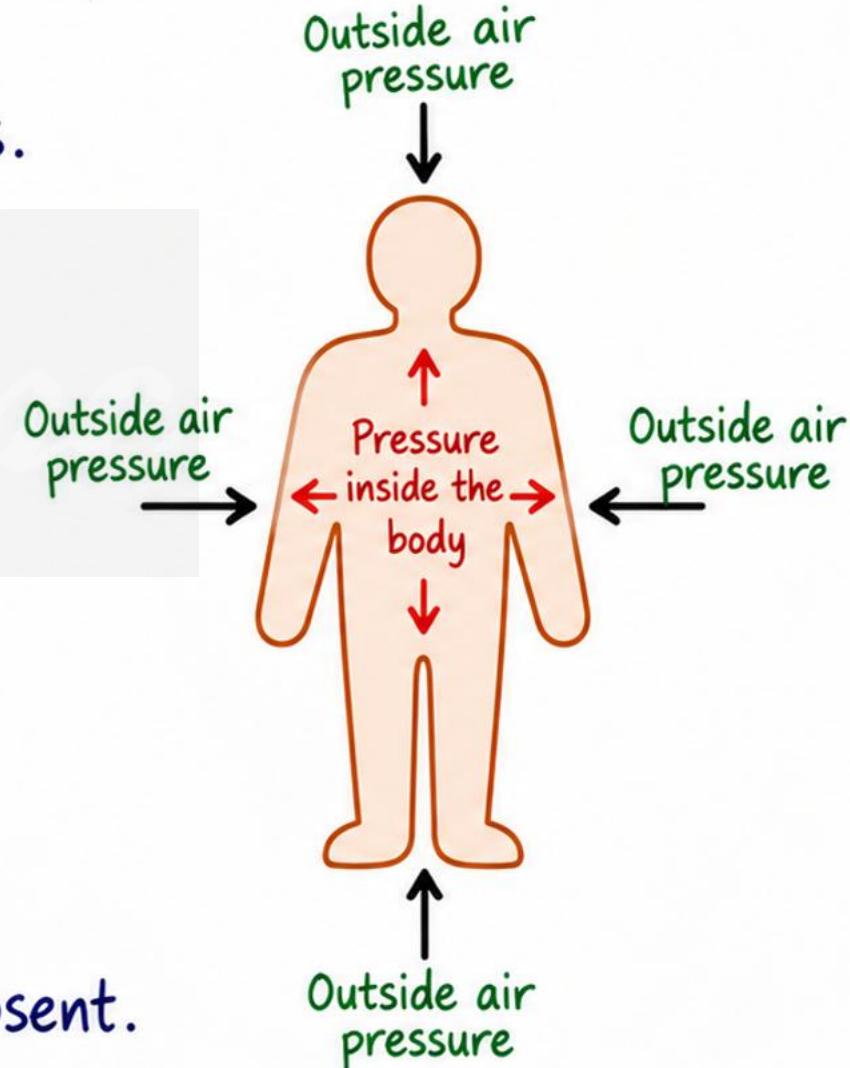
During the advancing monsoon, moist winds bring rain to much of India. During the retreating monsoon, rain decreases in many areas, but parts of south-eastern India receive rain.

WHY WE DO NOT FEEL AIR PRESSURE

Q4. Why do you not feel the pressure of the atmosphere?

Air has weight and exerts pressure on our bodies. However, we normally do not feel it because:

- Atmospheric pressure acts from all directions.
- Pressure inside our body balances the pressure exerted by the surrounding air.
- Therefore, there is normally no large pressure difference pressing our body inwards.



This does not mean that atmospheric pressure is absent.

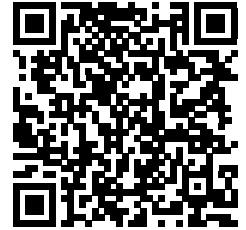


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