

## Chapter 4 - Air

Air is the generic name for the mixture of gases that makes up the Earth's atmosphere. This gas is primarily nitrogen, mixed with oxygen, water vapour, argon, carbon dioxide, and trace gases. Air is essential for all living beings for survival. elaborately explains the composition of the atmosphere, structure of the atmosphere, weather and climate, etc.

### Overview

Atmosphere: An atmosphere is a layer of air surrounding our planet Earth. All living beings on this earth depend on the atmosphere for their survival. It is this mass of air that has made the temperature on the earth liveable.

### Composition of the Atmosphere

In the atmosphere, nitrogen and oxygen are found in bulk quantities. Carbon dioxide, helium, ozone, argon and hydrogen are found in lesser quantities. Apart from these gases, tiny dust particles are also present in the air. Nitrogen is the most plentiful gas in the air. When we inhale, we take some amount of nitrogen into our lungs and exhale it.

Nitrogen is essential for plants to survive. They cannot take nitrogen directly from the air. Bacteria, that live in the soil and roots of some plants, take nitrogen from the air and change its form so that plants can use it.

Oxygen is the second most plentiful gas in the air. Humans and animals take oxygen from the air as they breathe. During photosynthesis, green plants produce oxygen. In this way, oxygen content in the air remains constant.

Carbon dioxide is another important gas. Green plants use carbon dioxide to make their food and release oxygen. Humans or animals release carbon dioxide. The amount of carbon dioxide released by humans or animals seems to be equal to the amount used by the plants which make a perfect balance.

Read the above passage throughly and try to understand and give the answer of the following question :

- 1.What is the Atmosphere?
- 2.Write the Coposition of Atmosphere?

3. Write the Importance of Nitrogen.

4. Write the importance of Carbon dioxide.

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