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# Air Around Us, Composition of Air, Primary Usage of Oxygen, Uses of Air (For CBSE, ICSE, IAS, NET, NRA 2022)

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## What is Air?

1. Air is the Earth's atmosphere.
2. It has an indefinite shape and volume.
3. It is colourless and odourless.
4. Air is needed by all living thing; we cannot see air but we can feel it.
5. It is the clear gas in which living things live and breathe
6. Air in motion is called wind.
7. Air occupies space, air has weight and it is present in water and soil.

## Composition of Air

It is a mixture of gases, water vapors and dust particles. The composition of air is

gas	%
Nitrogen	79 %
Oxygen	20 %
CO <sub>2</sub>	1 %
He, H <sub>2</sub> etc.	
Water Vapors	
Dust Particles	
<i>Composition of Air</i>	

## Primary Usage of Oxygen

Combustion	It helps in burning of fuel
Respiration	All living being uses air for breathing and respiration
<i>Primary Usage of Oxygen</i>	

## Primary Usage of Nitrogen

Proteins	Nitrogen is used by plants and animals to synthesize proteins in the bod
Ammonia	Nitrogen is used to manufacture ammonia used for in many industries.
<i>Primary Usage of Nitrogen</i>	

## Primary Usage of CO<sub>2</sub>

Photosynthesis	It is used by plants in synthesizing their food by the process of photosynthesis
Fire extinguishers	It is used in fire extinguishers.
<i>Primary Usage of CO<sub>2</sub></i>	

## Uses of Air

1. Animals use air for respiration.
2. Plants use air to prepare their food. (Photosynthesis)
3. Power generation by wind mills. Wind mill helps in electricity generation.
4. Burning of fuels and substances.
5. Air plays important role in water cycle
6. Birds, insect can fly because of the presence of air

## Interdependence of Oxygen and Carbon Dioxide

- Plants consume oxygen for respiration but they also produce oxygen by photosynthesis by consuming Carbon dioxide. But plants produce more oxygen then they consume. So we generally say that plants produce oxygen by absorbing Carbon Dioxide Animals also respire i.e.. they inhale oxygen and gives out carbon dioxide in the atmosphere. So oxygen and carbon dioxide balance is maintained in the atmosphere.
- So we can say that Carbon Dioxide is replenished by the process of respiration and oxygen is replenished by the process of photosynthesis.