

# ATMOSPHERE COMPOSITION AND STRUCTURE

Lesson No.	Title	Activity
9	<b>Atmosphere Composition And Structure</b>	Prepare a model of the structure of atmosphere by using the locally available raw material

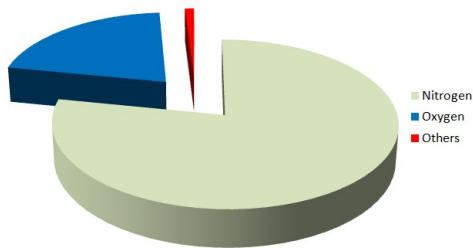
## Meaning

Earth is a unique planet because the life is found only on this planet because of availability of water and air. The air is a mixture of several gases. The air encompasses the earth from all sides called the atmosphere. It is connected with the earth due to the gravitational force of the earth. It helps in stopping the ultra violet rays harmful for the life and maintain the suitable temperature necessary for life. The air is essential for the survival of all forms of life on the earth.. Besides many gases, water vapour and dust particles are also found in the atmosphere.

## Composition of Atmosphere

### Gases in atmosphere

- The atmosphere is the mixture of different types of gases, including water vapour and dust particles.
- Nitrogen and Oxygen are the two main gases containing 99% part of atmosphere.



### Ozone Gas

- The amount of ozone gas in the atmosphere is very little but it is very important.
- It protects the living beings by absorbing the ultraviolet rays of the sun.

### Water Vapour

- Gaseous form of water present in the atmosphere is called water vapour which is the source of all kinds of precipitation.

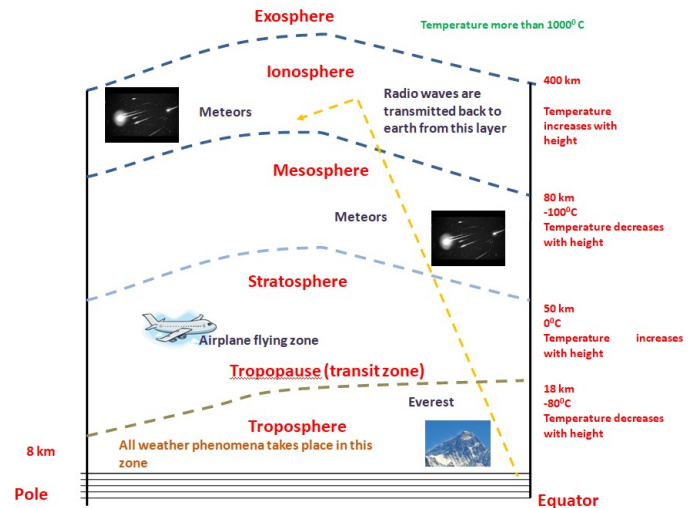
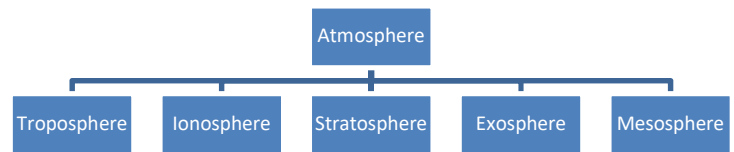
### Dust Particles

- Dust particles are generally found in the lower layers of the atmosphere and help in the condensation.

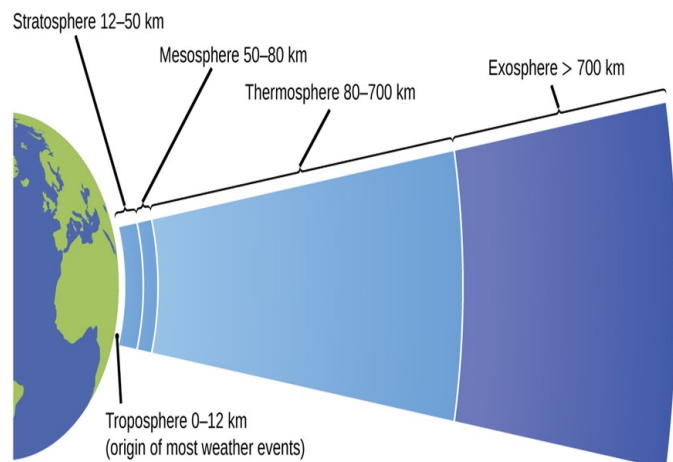
### Importance of the Atmosphere

- Oxygen is very important for the living beings.
- Carbon dioxide is very useful for the plants.
- Dust particles present in the atmosphere create suitable conditions for the precipitation.

## Structure of the Atmosphere



### Thickness of layers from Earth

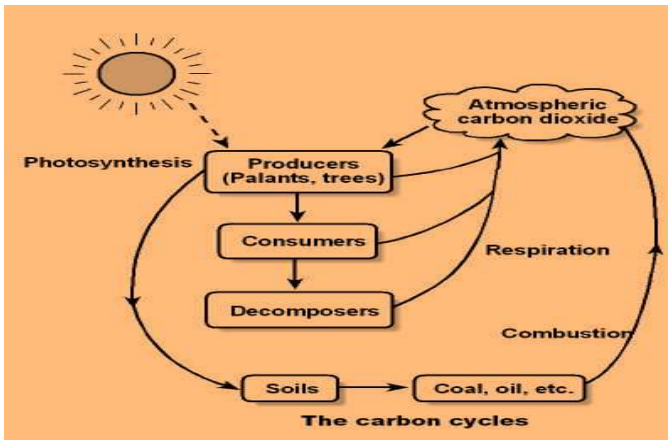
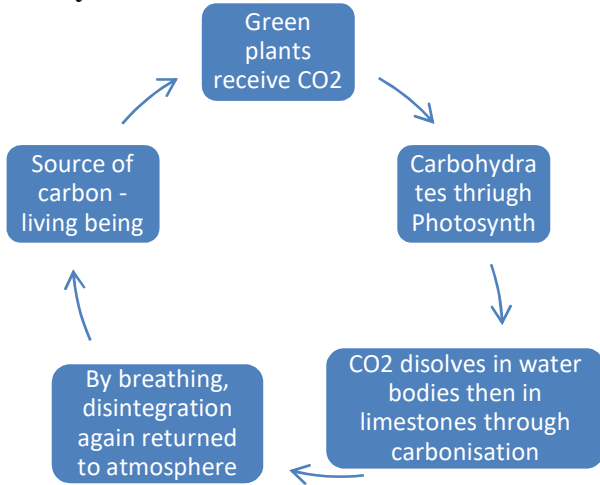


# Cyclic Process of Atmospheric Gases

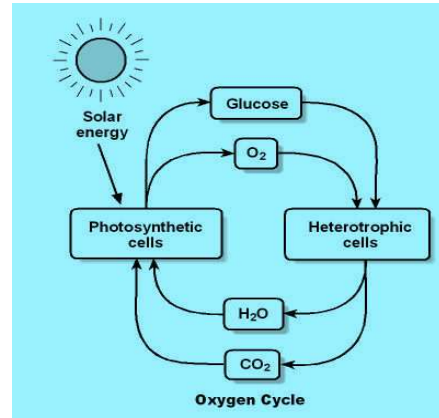
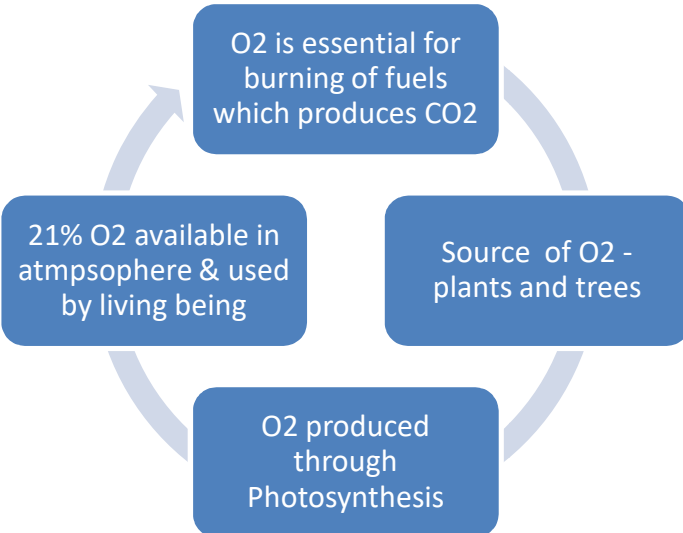
## Cycle of Gases



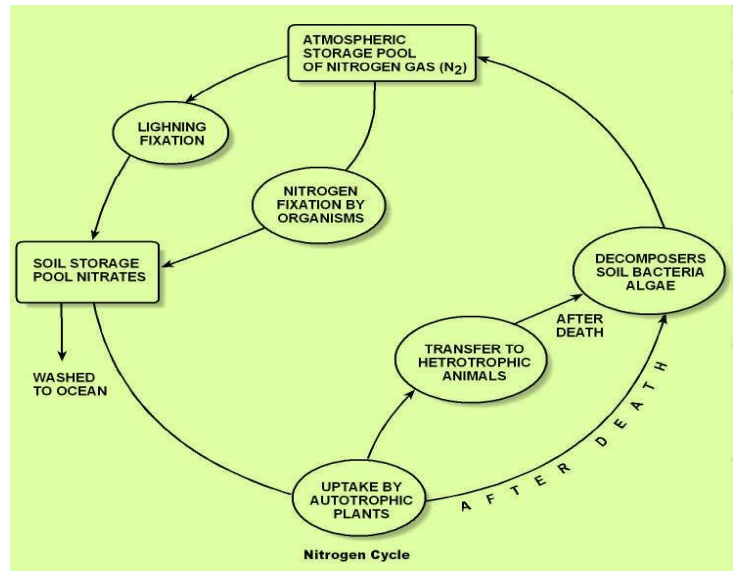
### Carbon Cycle



### Oxygen Cycle



### Nitrogen cycle



### Do You Know?

Oxygen is essential for burning while CO2 is only fire extinguishing gas

### Evaluate Yourself

1. The atmosphere is essential for existence of life on earth. Explain.
2. How the function of troposphere is different from stratosphere?
3. The coexistence of water vapour and dust particles are essential for precipitation. Explain.
4. Why ozone gas is an important component of atmosphere?
5. Describe the carbon cycle with the help of illustration.