

BISHOP SCOTT BOYS'SCHOOL

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STUDY COURSE MATERIAL

SCIENCE

SESSION-2020-21

CLASS -6

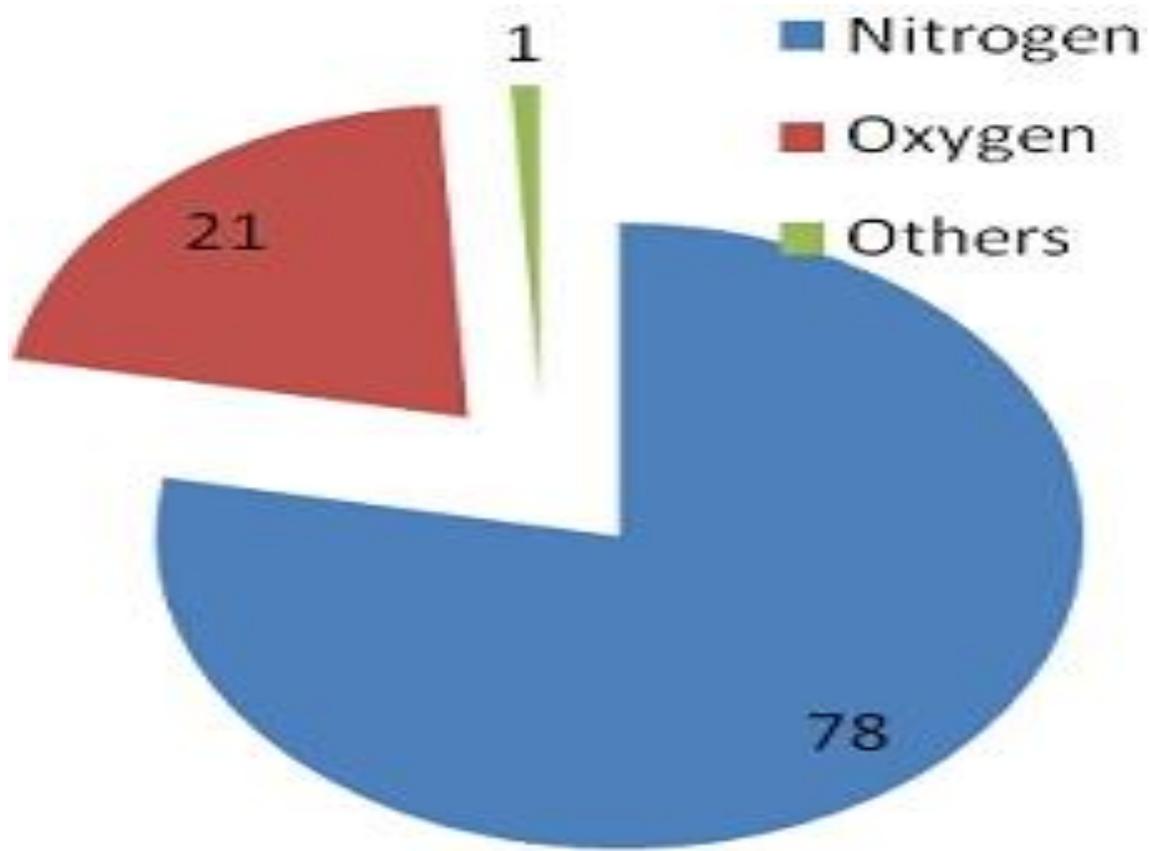
TOPIC: AIR AROUND US

DAY-1

❖ **TEACING MATERIAL**

Air: The invisible gaseous substance surrounding the earth, a mixture mainly of oxygen and nitrogen.

- The blanket of air that surround the earth is called atmosphere.
- Air is found everywhere. We cannot see air, but we can feel it.
- Air in motion is called wind.
- Air occupies space.
- Air is present in water and soil.
- Air is a mixture of nitrogen, oxygen, carbon dioxide, water vapour and a few other gases. Some dust particles may also be present in it. Atmosphere is essential for life on earth.
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- Aquatic animals use dissolved air in water for respiration.
Plants and animals depend on each other for exchange of oxygen and carbon dioxide from air.



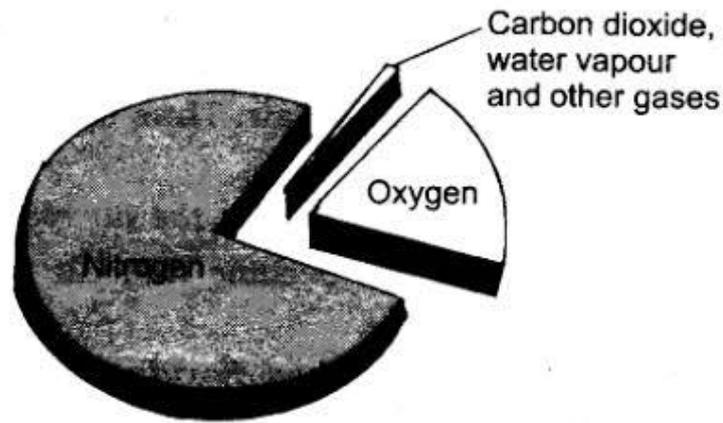


Fig. 15.8 Composition of air.

Name of Constituents	% Composition
Nitrogen gas	78.1%
Oxygen gas	20.9%
Carbon dioxide gas	0.03%
Argon	0.9%

VIDEO-LINKS

- 1- https://youtu.be/O-4_uYDm5Pg
- 2- <https://youtu.be/ltapZhWh9Hc>

ASSIGNMENT

Q1- Define Air.

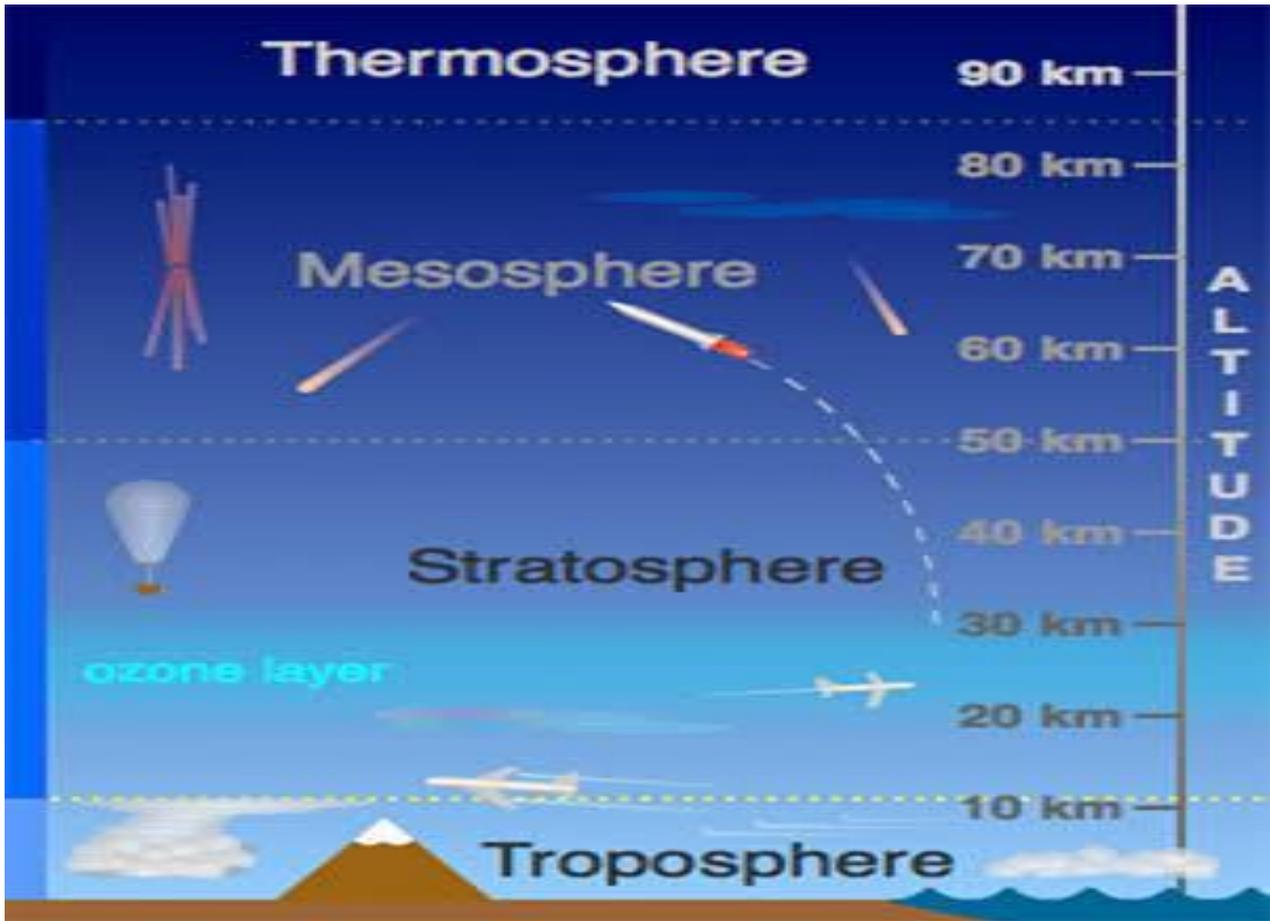
Q2- What do mean by atmosphere?

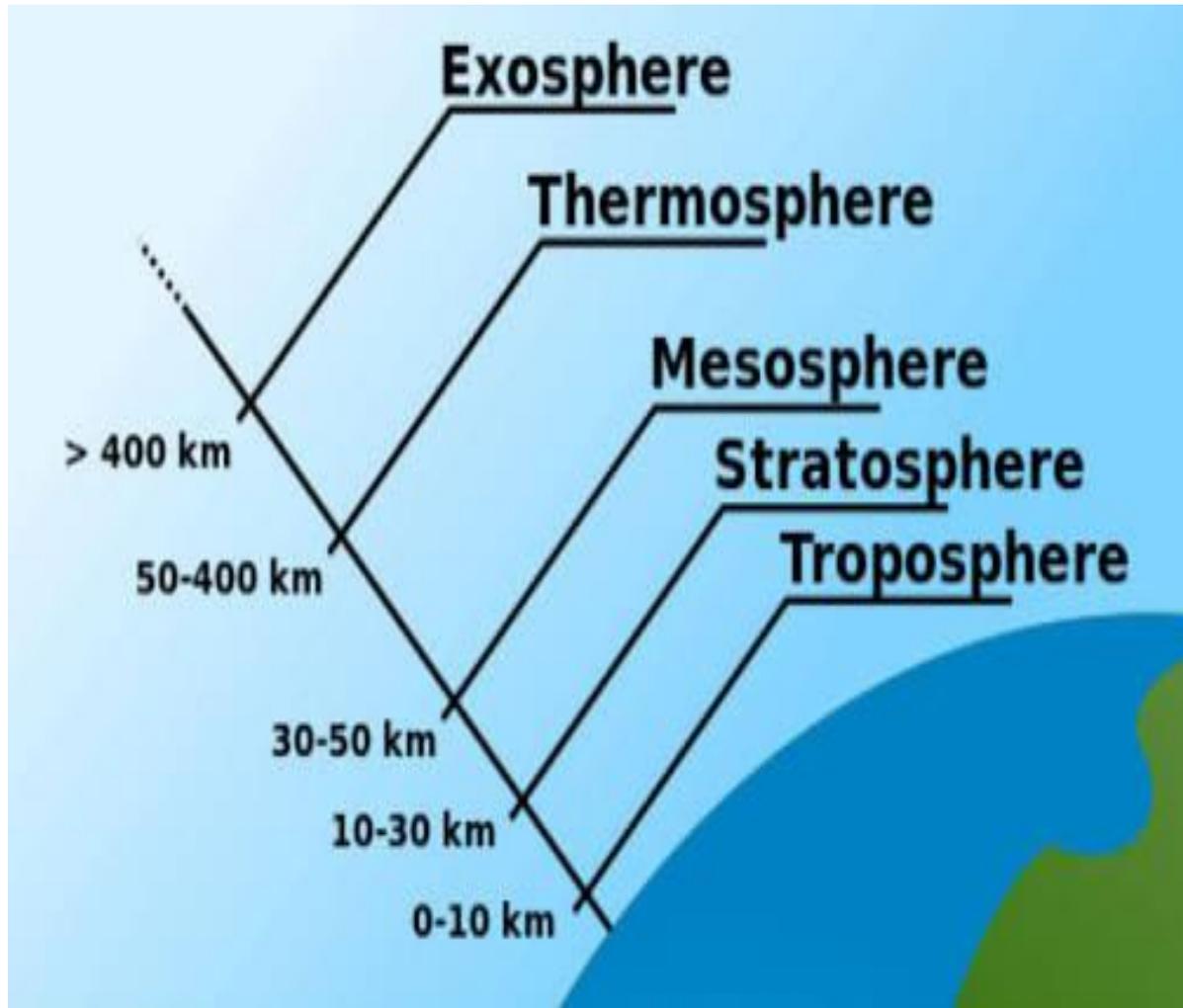
DAY-2

❖ TEACINGMATERIAL

Diffrent Layers of Atmosphere

- Troposphere
- Stratosphere
- Meseosphere
- Thermosphere





❖ VIDEO-LINKS

3- https://youtu.be/Y0AOg_fPkog

4- <https://youtu.be/5sg9sCOXFIk>

ASSIGNMENT

Q1- Name the various layers of atmosphere.

Q2- Name the layer of atmosphere in which the aeroplane flies.

DAY-3

Constituent of Air

- *Air contains mostly nitrogen and oxygen . Nitrogen is nearly 78% of the air . Oxygen is nearly 21% of the air. Rest 1% is carbon ioxide, water vaour, dust particles and some other gases. The composition of gases in air changes from place to place.*

1. **Nitrogen** : Plants need nitrogen to grow.
 2. **Oxygen** : Used by all living things to respire and help to burn things.
 3. **Carbon dioxide**: Plants and animals consume oxygen and produce carbon dioxide during respiration. It is used by green plants for photosynthesis. It is released on burning.
 4. **Water Vapour**: Formed due to evaporation of water. Amount of water vapour present in the air is called humidity. Varies from place to place and also in the same place during day and night.
- a. **Dust and Smoke**: Smoke contains a few gases and fine dust particles. It is very harmful. Presence of dust particles in air varies from time to time and from place to place.

❖ VIDEO-LINKS

MUST WATCH

5- <https://youtu.be/PMenuLJmV0I>

ASSIGNMENT

- Q 1- Name the major constituents of air.
Q2- Define water vapour.

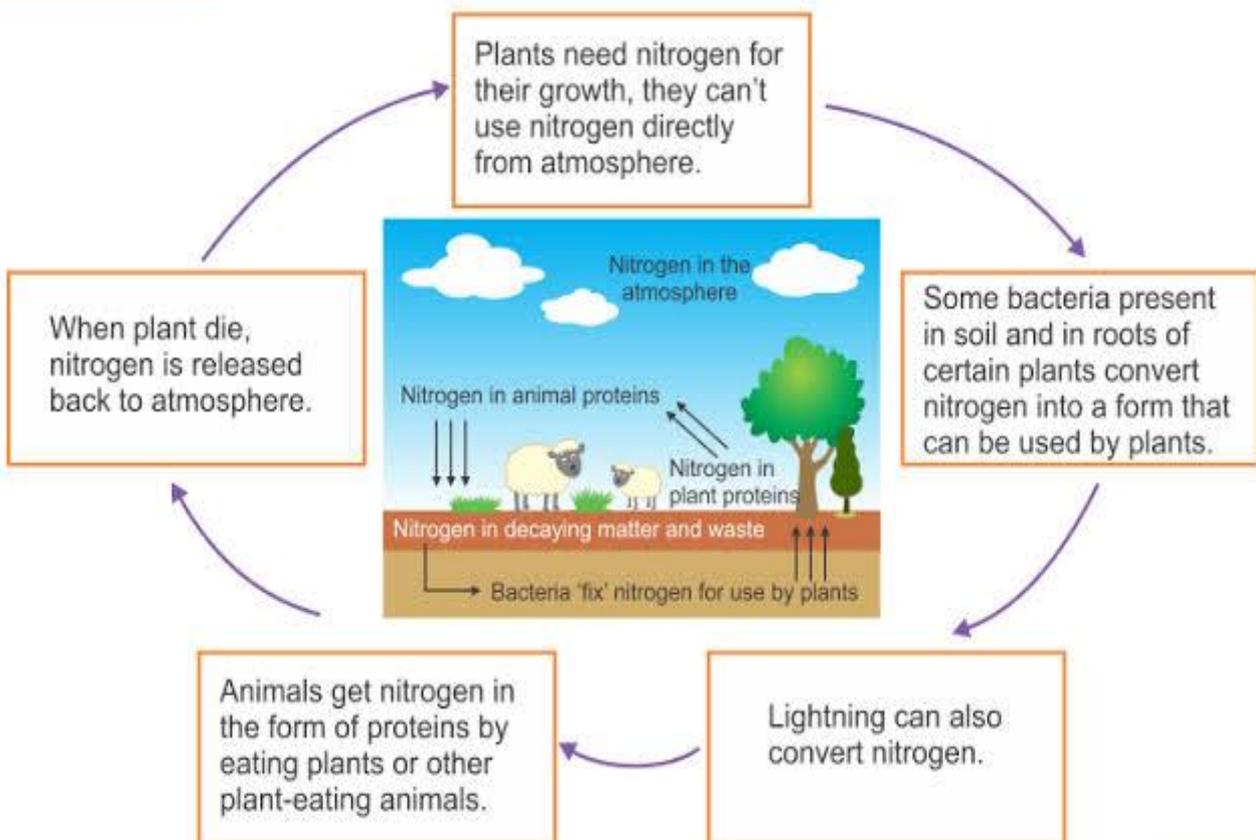
DAY-4.

●

- Air aids burning.
- Air is needed for breathing.
- Plants need air to make food.
- Birds fly in air. Aeroplanes also go up in the air because of air pressure.
- Moving air is called wind. The wind makes the windmill rotate.
- Air help in quick evaporation of sweat that helps in keeping us cool.

LC5123

Importance of Nitrogen in Air



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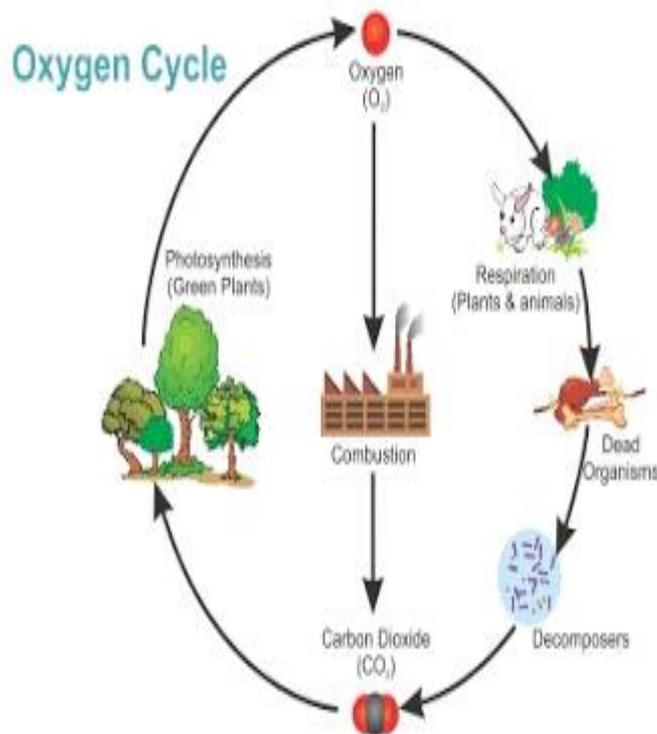
A2

Oxygen is required for

Combustion : the process of burning of fuel in air with release of energy in the form of heat and light.

Respiration : a form of combustion in which oxygen reacts with food to release energy.

Rusting : the corrosion of iron when exposed to air (oxygen) and moisture (water).



VIDEO-LINKS

<https://youtu.be/ltapZhWh9Hc>

<https://youtu.be/rFdZxN-SGPc>

ASSIGNMENT

Q1- Write five importance of Air.

EXERCISE:

- Q1- Write three uses of oxygen.**
Q2- Write importance of Nitrogen.
Q3- Draw a diagram showing composition of various Air in the atmosphere.
Q4- Write the names of various gases present in Air.

ACTIVITY

Perform an activity to show the presence of oxygen in the air.

Light a candle and then cover it with a glass tumbler. what did you see? Write your observations.

OTHER LINKS

https://youtu.be/24nIkhMH_CE

MIND MAP

