

Worksheet

Atmosphere

1. Atmosphere is essential for the living beings because it contains life giving gas like oxygen. It also contains carbon dioxide which is essential for photosynthesis. It also contains dust particles which help in cloud formation. Any variation in the composition of the atmosphere causes different breathing problems, greenhouse effect and less precipitation. So, a good atmosphere is essential for the living beings.
2. The air in our atmosphere acts as insulation keeping the earth from getting too cold or too hot. Ozone is another type of gas in the air which protects us from the U.V. rays. Air in the atmosphere protects us from meteoroids. Air gives energy for the functioning of the living things.
3. The constituents found in air are nitrogen, oxygen, argon, carbon dioxide. Other gases such as neon, helium, ozone, hydrogen and krypton and dust particles.

4. The percentage of nitrogen found in air is 78%.

5. The percentage of:

Oxygen \rightarrow 21%

Argon \rightarrow 0.93%

Carbon dioxide \rightarrow 0.04%

6. Both plants and animals need nitrogen for their survival but they can't absorb it directly from the air. Some bacteria that are found on the roots of some leguminous plants convert the nitrogen in the atmosphere and makes it usable for the plants.

7. Oxygen is produced by the process of photosynthesis by the green plants. The green plants take in carbon dioxide and convert it into starch in the presence of sunlight using chlorophyll. The end product of photosynthesis is released into the air as oxygen.

8. Atmosphere has very thin air and large gasses.

9. Global warming is a gradual increase in the earth's temperature generally due to the greenhouse ~~effect~~ effect caused by increased levels of carbon dioxide, CFCs, and other pollutants.
10. The degree ~~of~~ of hotness or coldness of a body is called the temperature of the body.
11. Humidity is the amount of water vapour present in the air.
12. Moving air is called wind.
13. Rain gauge is the instrument which is used for measuring rainfall.
14. A wind is always named according to the direction ~~of~~ from which it blows.
15. An astronomer Anders Celsius invented measuring unit of temperature as degree Celsius.
16. All living beings depend on the atmosphere for their survival. Atmosphere provides the

air they breathe. It protects them from the harmful effects of the sunrays. Without its protection the life forms on the earth can't exist. The green plants need CO_2 for the photosynthesis.

17. CO_2 in the atmosphere traps the heat radiated from the earth creating a greenhouse effect. This makes the temperature livable. Without this, earth would have been too cold to live. But the increased emissions from the vehicles and factories increases the temperature leading to global warming.

18. The balance between oxygen and carbon dioxide is maintained by:

1) Green plants give out oxygen during photosynthesis. This oxygen is used up when living things (including plants) respire, and carbon dioxide is released.

2) The dual process ensures that the amount of oxygen and carbon dioxide in the atmosphere is always constant.

- 3) This natural balance is affected when we cut down trees immediately.
19. The Stratosphere is the most suitable conditions for flying aeroplanes.
20. The uppermost layer of the atmosphere is the exosphere.
21. The amount of ~~the~~ solar radiation received by the atmosphere and the surface of the earth is called insolation.
22. The atmosphere also includes some solid matter like dust particles, salt particles, pollen dust, volcanic ashes and smoke. It also comprises of nitrogen, oxygen, carbon dioxide, hydrogen and ~~o~~ ozone.