

THE ATMOSPHERE

The **atmosphere** is the gaseous envelope that surrounds the Earth and constitutes the transition between the surface of the Earth and the vacuum of the space.

The atmosphere is made of air and this is a mixture of **gases**:

GASPERCENTAGE IN ATMOSPHERE

Nitrogen 78%

Oxygen 21%

Argon 0.9%

Carbon dioxide 0.03%

Water Vapor 0.01%

Nitrous Oxide

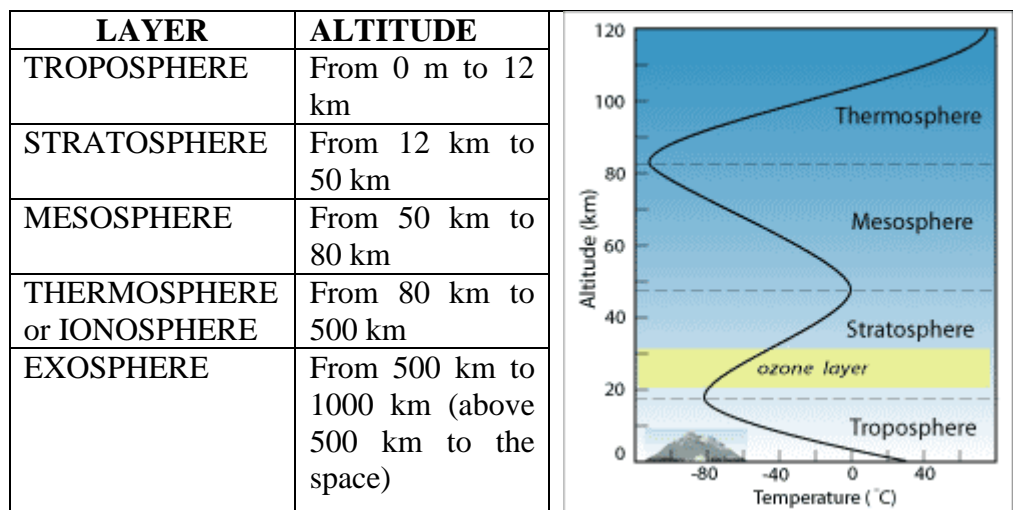
Ozone

Methane

Neon

Helium

The atmosphere is divided into **five layers**



Explicar en español las características de cada capa de la atmósfera.

Links about the atmosphere:

http://www.windows.ucar.edu/tour/link=/teacher_resources/graphs/teach_atmosph_temper.html

juegos interactivos sobre la atmosfera

<http://www.windows.ucar.edu/tour/link=/games/games.html>

Divertida página web en inglés sobre qué es the weather y todos los elementos del clima

http://www.bbc.co.uk/schools/whatisweather/aboutweather/flash_menu.shtml

EXCERSICES ABOUT THE ATMOSPHERE

Match:

1.- Layer of atmosphere where weather, clouds and smog occur	a) ionosphere
3.- Layer of atmosphere that has a high concentration of electrically charged particles	b) atmosphere
4.- Most common gas in the atmosphere	c) nitrogen
5.- Layer of atmosphere that includes the ozone layer	d) oxygen
6.- The upper layer of atmosphere near the space	e) stratosphere
7.- This gas is very important for the living beings	f) ultraviolet radiation
8.- The ozone layer absorbs...	g) exosphere
	h) troposphere

Complete:

living beings oxygen ultraviolet rays warming

The atmosphere is very important for _____ because:

1. It contains the _____ we need to breathe.
2. It favours the _____ of the Earth.
3. It protects us from the _____

The main gas in the atmosphere is:

- A. Hydrogen
- B. Oxygen
- C. Water
- D. Nitrogen

The Earth atmosphere is plenty of a gas which doesn't appear in other planets. Which gas is it?

- A. Oxygen
- B. Nitrogen
- C. Carbon dioxide
- D. Methane

Why our planet is rich in oxygen?

- A. Because the Earth is near the Sun.
- B. Because there are plants in the Earth.

BINGO

Bingo using 14 words. Each student draws a 3x3 table with nine words. Then you define one of the fifteen words. They have to guess which word you are talking about. The students who have this word have to tick it on their paper. Then you choose another word and repeat the process. The students can say LINE or, at the end, BINGO.

ATMOSPHERE
TROPOSPHERE
STRATOSPHERE
MESOSPHERE
THERMOSPHERE
EXOSPHERE
OZONE LAYER

AIR
NITROGEN
OXYGEN
WEATHER
WATER VAPOR
ULTRAVIOLET RAYS
GASES

1. Approximately 21% of the troposphere is this gas. (oxygen)
2. The mixture of gases that surround the earth. (Atmosphere)
3. It protects us from the ultraviolet rays (ozone layer)
4. Layer of atmosphere where weather, clouds and smog occur (Troposphere)
5. Approximately 78% of the troposphere is this gas. (nitrogen)
6. It is a mixture of gases. It is in the atmosphere (air).
7. The upper layer of atmosphere near the space (Exosphere).
8. In this layer the temperature increases up to 1000°C (Thermosphere)
9. Layer of atmosphere that includes the ozone layer (Stratosphere).
10. It is necessary for the clouds. (water vapor)
11. The air contains a lot of them (gases)
12. These rays are very dangerous for people (ultraviolet rays)
13. It is an atmosphere layer and it is between the stratosphere and the thermosphere (Mesosphere)