

Atmosphere Notes

Definition : An envelope of _____ surrounding the earth.

Composition of the Atmosphere:

Nitrogen _____ :

- _____ gas in the atmosphere, needed to make proteins
- All _____ are made from proteins.

Oxygen _____ :

- _____ most abundant gas in the atmosphere.
- Used by most living things, mainly for _____.
- Also used for _____ (cannot burn anything without oxygen)

Argon _____ :

- The _____ most abundant gas in the atmosphere.
- Used to make _____ (not fluorescent bulbs)

Carbon Dioxide _____ :

- _____ most abundant gas in the atmosphere.
- Raw material needed by _____ to make _____.

Trace Gases _____ :

- Neon-Used in _____
- Helium-Used in _____
- Methane-used in industry- _____
- Krypton-Used in _____
- Xenon-Used to fill _____
- Ozone-Used for _____, and _____
- Water Vapor-Needed by all living things, absorbs _____ from the sun.

Ozone

- “ _____ ” for life
- Absorbs the harmful _____ from the sun.
- Ultraviolet radiation is what causes us to _____.
- Do we need to protect the Ozone Layer?

What is Harming the Ozone?

- _____ (CFC's)- used in making _____, aerosol sprays, and foam products

Structure of the Atmosphere

_____ Layers of the Atmosphere

- Troposphere
- _____
- Mesosphere
- Thermosphere
- _____

Troposphere:

- Contains _____ of all the atmosphere's gases, as well as dust, ice, and _____.
- This is where all _____, clouds, and smog occur.
- This is where _____.
- It is the closest layer to the _____.
- This is where we have _____.

Stratosphere:

- This is the layer _____ the _____.
- This is where the _____ is located.
- There are strong _____ blowing around the earth.
- _____ are located here.
- Most jet aircraft fly in the _____ of this layer.

Mesosphere:

- This is the layer _____ the _____.
- This layer is _____, it's the _____ region in the atmosphere.
- This layer protects Earth from _____. They burn up here.

Thermosphere:

- This is a _____.
- _____ travel here, so this layer is very important for radio communications.
- _____ (Northern Lights) are located here.
- This layer contains another layer called the _____.
- This name comes from ions - _____ particles that have gained or lost an _____.

Exosphere:

- This is the _____ of the earth's atmosphere.
- Beyond this layer lies _____.
- There is no clear _____ between the atmosphere and space.
- This is where you'll find _____.
- _____.

How are Layers Separated?

- The division of Earth's atmospheric layers is based on the _____.
- Earth's atmospheric gases heat up when they _____ from the sun.
- Some layers contain gases that easily absorb the sun's energy, other layers do not.

Atmospheric Pressure

- The pressure that the atmosphere exerts against the _____.
- Gas has _____. Each layer of Earth's atmosphere is _____ on the one or ones below it.
- _____ are pushed together because of the weight of the atmosphere above them.
- Atmospheric pressure is greater near _____ because there are more molecules of air pushing down from above, and decreases as you move _____.
- Cold air is _____ than warm air, therefore, has a _____.