

Facts About The Atmosphere

Tell which layer of the atmosphere the fact is referring.

Troposphere Stratosphere Mesosphere Thermosphere Exosphere

- ❖ Void, not gases
- ❖ Strato "layer" gases don't mix much
- ❖ Temps decrease as altitude increases
- ❖ Vacuum
- ❖ Averages -60 degrees C
- ❖ Density is low therefore particles do not often collide and transfer energy
- ❖ Known as outer space
- ❖ Densest atmospheric layer
- ❖ 90% of the atmosphere's total mass
- ❖ Doesn't feel hot, the high temperature means the particles in that layer are moving very fast
- ❖ Gases mix continuously
- ❖ Protects life on Earth by absorbing harmful UV radiation
- ❖ Meso "middle" layer
- ❖ Contains almost all the Earth's carbon dioxide, water vapor, clouds, air pollution, weather and life forms
- ❖ Temperatures increase with altitude
- ❖ Coldest layer
- ❖ Air is very thin
- ❖ Contains little moisture
- ❖ Temps as low as -93 degrees C
- ❖ Nitrogen and oxygen absorb high-energy solar radiation and release
- ❖ Tropo means "turning" – where gases turn and mix
- ❖ Thermo "heat" – temps are the highest
- ❖ Contains the ozone layer
- ❖ Absorbs ultraviolet radiation from the sun which warms the air
- ❖ Lower part is extremely cold
- ❖ Temps 1,000 degrees C or higher
- ❖ Temps vary greatly