

## Earth's atmosphere facts

### Atmosphere Facts for Kids

Our atmosphere seems tantalizingly close and yet mysteriously distant. The life ...

(Exosphere), 700-800 km 2000-10000 km, (??), (??), (??) ? ? ?

1% (0.934%) (0.033%), (??), (??), ?

80,500, (??), 50,100, (??)

10~12, (??), (??), 50, (??), 80, (??)

Yes. Mainly based on the change of temperature with altitudes, Earth's atmosphere can be divided into five layers: troposphere (surface to ~ 12 km), stratosphere (~ 12 km to ~ 50 km), mesosphere (~50 km to ~ 80 km), thermosphere (~80 km to 700 km), and exosphere (~ 700 km to 10,000 km).

Nothing on Earth's surface can survive. There will be no clouds and rain and all ocean water would evaporate. The harmful UV radiation will hit Earth's surface unblocked. The day side of Earth surface would be very hot due to strong sunlight and the night side would be very cold without greenhouse effects.

Earth's atmosphere is a thin band of air made up of numerous layers based on temperature.

Without this protective blanket, life on Earth would not exist as it protects us from heat and radiation emitted from the sun and contains the air we breathe.

Though oxygen is crucial for life on Earth, it is not the primary component of our atmosphere. According to education site Vision Learning Earth's atmosphere is composed of approximately 78 percent nitrogen, 21 percent oxygen, 0.93 percent Argon, 0.04 percent carbon dioxide as well as trace amounts of neon, helium, methane, krypton, ozone and hydrogen, as well as water vapor.

But just how high does Earth's atmosphere extend? Well, that depends on who you ask! According to NASA the upper layer of Earth's atmosphere — the exosphere — extends up to 6,200 miles (10,000 km), above which the atmosphere and space blend. Though not everyone agrees where space actually begins, most scientists agree that the Kármán line, situated 62 miles (100 km) above sea level, marks the transition point between Earth and space. Since 99.99997 percent of Earth's atmosphere is located below this point, it's considered a reasonable height to draw the boundary between Earth and space.



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