Composition of Earth's Atmosphere

Earth is the only planet in the solar system with an atmosphere that can sustain life. The blanket of gases not only contains the air that we breathe but also protects us from the blasts of heat and radiation emanating from the sun. It warms the planet by day and cools it at night.

Earth's atmosphere is about 300 miles (480 kilometers) thick, but most of it is within 10 miles (16 km) the surface. Air pressure decreases with altitude. At sea level, air pressure is about 14.7 pounds per square inch (1 kilogram per square centimeter). At 10,000 feet (3 km), the air pressure is 10 pounds per square inch (0.7 kg per square cm). There is also less oxygen to breathe.

Composition of air

- ➤ Nitrogen 78 percent
- > Oxygen 21 percent
- > Argon 0.93 percent
- ➤ Carbon dioxide 0.04 percent
- > Trace amounts of neon, helium, methane, krypton and hydrogen, as well as water vapor