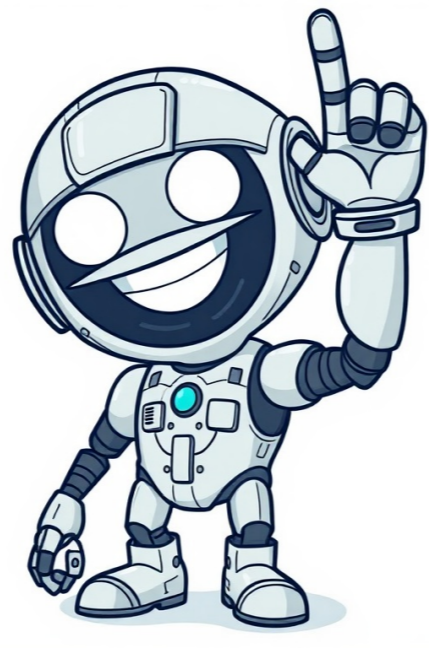


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Air is the invisible mixture of gases that surrounds Earth. Air contains important substances, such as oxygen and nitrogen, that most species need to survive. Humans are one of those species. Sometimes, people use "atmosphere" instead of "air." Standard Dry Air is the composition of gases at sea level. It's a standard unit of measurement. Standard Dry Air has nitrogen, oxygen, argon, carbon dioxide, neon, helium, krypton, hydrogen, and xenon. Water vapor is not included because it changes with humidity and temperature. Because air masses are constantly moving, Standard Dry Air is not accurate everywhere at once. Nitrogen and oxygen make up about 99 percent of Earth's air. Humans need oxygen to live. Carbon dioxide makes up less than 0.04 percent. Plants and animals each produce gases needed by the other. Plants need carbon dioxide; people exhale it as a waste. People need oxygen; plants produce it during photosynthesis, which turns sunlight into nutrients. Water vapor in the air can be seen as clouds. Water enters the atmosphere through the water cycle. The water cycle also brings molecules into oceans, lakes, and rivers. Some gases come from volcanic eruptions. Volcanoes eject gases from Earth's interior. Water vapor is common. Toxic gases like carbon monoxide and sulfur dioxide are harmful to most organisms. A few can thrive on these gases. Bacteria at the ocean floor don't need oxygen or sunlight. They use hydrogen sulfide instead of carbon dioxide to create nutrients. The air changes as you go higher. It gets thinner because there are fewer molecules. Mountain climbers use oxygen cans above 3,800 meters. Empty oxygen cans litter high mountains like Mount Everest. Mount Everest is very tall and has a special layer called ozone. Ozone has three oxygen atoms. It blocks UV rays so the sun's radiation doesn't harm living things. Earth's atmosphere affects us. Air pollution harms our air. It comes from cars, factories, and other sources. Pollutants can create smog or toxic clouds. Methane and excess carbon dioxide contribute to global warming. Nonatmospheric Air Compressed air is air with a consistent pressure. Planes use it at ground level so passengers can breathe easily. Compressed air is often higher than normal air pressure. Scuba divers use compressed air underwater. It allows them to breathe through a tube. Pneumatics is the science of pressurized air and gases. Pneumatic systems help with many things, including car brakes and musical organs. Fast Fact The sky appears blue because light scatters in air. Blue light scatters more than red light, so it looks blue. Fast Fact Lighter Than Air Things that are lighter than air have a density lower than Standard Dry Air. These things can float on top of them. Helium is very light. Objects filled with helium can float when filled with this substance. NOAA: Air Resources Laboratory Frequently Asked Questions Nitrogen gas makes up about 78% of Earth's atmosphere, followed by oxygen with about 21%, and argon with about 0.93%. The remaining 99.07% consists of water vapor, carbon dioxide, neon, methane, helium, krypton, hydrogen, xenon, ozone, and other elements and compounds. The atmosphere is divided into several layers, with the homosphere being the closest to Earth's surface and extending up to roughly the limit of space. The heterosphere is located above this layer and consists of three sub-layers: the exosphere, thermosphere, and mesosphere. Notably, the lower portion of the heterosphere contains oxygen and nitrogen gases, while these heavier elements are scarce in higher altitudes. However, it's worth mentioning that the upper heterosphere primarily comprises hydrogen gas.

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