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that is essentially what the earth's atmosphere is like layers upon layers of gas surrounding the earth working to protect the planet we asked rei ueyama an atmospheric scientist at nasa ames research center to explain a little bit more about the function and importance of our atmosphere ueyama is part of the atmospheric science branch key points earth is surrounded by a mixture of gases called the atmosphere the composition of the atmosphere is 78 nitrogen and 21 oxygen with the remaining 1 consisting of water vapor argon carbon dioxide and small amounts of other gases mesosphere noun region in earth's atmosphere between the stratosphere and the thermosphere about 50 80 kilometers 31 50 miles above the earth's surface meteor noun rocky debris from space that enters earth's atmosphere also called a shooting star or falling star ozone layer noun the atmosphere is a mixture of gases that surrounds the earth it helps make life possible by providing us with air to breathe shielding us from harmful ultraviolet uv radiation coming from the sun trapping heat to warm the planet and preventing extreme temperature differences between day and night earth's atmosphere faqs answered by an expert atmospheric difference earth venus and mars additional resources earth's atmosphere is a thin band of air made up of numerous layers based located between about 700 and 10 000 kilometers 440 and 6 200 miles above earth's surface the exosphere is the highest layer of earth's atmosphere and at its top merges with the solar wind molecules found here are of extremely low density so this layer doesn't behave like a gas and particles here escape into space earth's atmosphere is composed of about 78 nitrogen 21 oxygen and one percent other gases these gases are found in atmospheric layers troposphere stratosphere mesosphere thermosphere and exosphere defined by unique features such as temperature and pressure jetstream topic matrix the atmosphere introduction to the atmosphere the atmosphere is a layer of gas and suspended solids extending from the earth's surface up many thousands of miles becoming increasingly thinner with distance but always held by the earth's gravitational pull the layers of the atmosphere the troposphere stratosphere mesosphere thermosphere and exosphere noaa troposphere the troposphere is the lowest layer of our atmosphere starting at ground level it extends upward to about 10 km 6 2 miles or about 33 000 feet above sea level jetstream topic matrix the atmosphere layers of the atmosphere download image the envelope of gas surrounding the earth changes from the ground up five distinct layers have been identified using thermal characteristics temperature changes chemical composition movement and density vocabulary we live at the bottom of an invisible ocean called the atmosphere a layer of gases surrounding our planet nitrogen and oxygen account for 99 percent of the gases in dry air with argon carbon dioxide helium neon and other gases making up minute portions water vapor and dust are also part of earth's atmosphere air makes up earth's atmosphere the air we breathe is 78 percent nitrogen gas 21 percent oxygen 0 9 percent argon and 0 03 percent carbon dioxide along with water vapor floating molecules of water also present are traces of other gases and tiny bits of dust pollen grains from plants and other solid particles features of the atmosphere helps retain the sun's heat and prevents it from escaping back into space protects life from harmful radiation from the sun plays a major role in earth's water cycle helps keep the climate on earth moderate there is no boundary between the atmosphere and outer space why is the atmosphere important why is earth the only planet in the solar system known to have life the main reason is earth's atmosphere organisms need the gases in the atmosphere to live water is also essential for life water vapor is one of the gases in the atmosphere green algae like in this photo are primitive life the atmosphere stratosphere mesosphere thermosphere exosphere 1 troposphere temperature 62 f 17 c around the lowest point to 60 f 51 c near the top the troposphere is

the lowest layer of the atmosphere and it is where we live it extends up to 5 to 10 miles 8 to 15 km above the surface home atmosphere outside earth earth s atmosphere composition nitrogen oxygen argon and co2 september 23 2023 some people are surprised to learn that oxygen isn t the most abundant gas in earth s atmosphere composition based on the relative volumes of the gases in earth s atmosphere nitrogen is actually more than 3 times more than oxygen study with quizlet and memorize flashcards containing terms like 1 what gas makes up the majority of the earth s atmosphere 2 what might happen if the earth didn t have an atmosphere 3 place the following atmospheric layers in sequence from lowest to highest a exosphere b stratosphere c troposphere and more published april 9 2024 highlights each year human activities release more carbon dioxide into the atmosphere than natural processes can remove causing the amount of carbon dioxide in the atmosphere to increase the global average carbon dioxide set a new record high in 2023 419 3 parts per million

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that is essentially what the earth s atmosphere is like layers upon layers of gas surrounding the earth working to protect the planet we asked rei ueyama an atmospheric scientist at nasa ames research center to explain a little bit more about the function and importance of our atmosphere ueyama is part of the atmospheric science branch

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located between about 700 and 10 000 kilometers 440 and 6 200 miles above earth s surface the exosphere is the highest layer of earth s atmosphere and at its top merges with the solar wind molecules found here are of extremely low density so this layer doesn t behave like a gas and particles here escape into space

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vocabulary we live at the bottom of an invisible ocean called the atmosphere a layer of gases surrounding our planet nitrogen and oxygen account for 99 percent of the gases in dry air with argon carbon dioxide helium neon and other gases making up minute portions water vapor and dust are also part of earth's atmosphere

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air makes up earth's atmosphere the air we breathe is 78 percent nitrogen gas 21 percent oxygen 0.9 percent argon and 0.03 percent carbon dioxide along with water vapor floating molecules of water also present are traces of other gases and tiny bits of dust pollen grains from plants and other solid particles

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features of the atmosphere helps retain the sun's heat and prevents it from escaping back into space protects life from harmful radiation from the sun plays a major role in earth's water cycle helps keep the climate on earth moderate there is no boundary between the atmosphere and outer space

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why is the atmosphere important why is earth the only planet in the solar system known to have life the main reason is earth's atmosphere organisms need the gases in the atmosphere to live water is also essential for life water vapor is one of the gases in the atmosphere green algae like in this photo are primitive life the atmosphere

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stratosphere mesosphere thermosphere exosphere 1 troposphere temperature 62 f 17 c around the lowest point to 60 f 51

c near the top the troposphere is the lowest layer of the atmosphere and it is where we live it extends up to 5 to 10 miles 8 to 15 km above the surface

earth s atmosphere composition nitrogen oxygen argon and co2

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