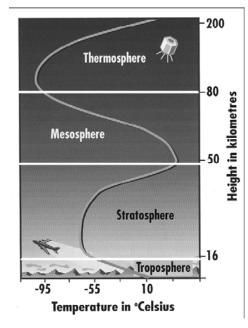
The Atmosphere: The Ocean of Air Above Us

The Earth is surrounded by an ocean of gases we call the atmosphere. The atmosphere is important because it contains the air most living things breathe. It also absorbs heat energy from the sun. It even recycles water by returning it back to the Earth as rain. Without the atmosphere, life as we know it could not exist on Earth. The atmosphere extends far above the surface of the Earth. Scientists discovered that the atmosphere is divided into layers, just like a layer cake. The names and number of layers are pictured in the diagram. As you can see, each layer varies in thickness and in temperature. Each layer is composed, or made, of a different composition of gases.



The layer of the atmosphere we live in is called the Troposphere. Tropo is a Greek word that means change. This first layer begins at sea level and ends about 9 miles up. The Troposphere contains about half of all the air in the entire atmosphere. Because it is at the bottom, air pressure, or the weight of the air, is greatest in this layer. All the clouds we see and the changes in weather we experience occur in the Troposphere. Air temperature and air pressure are not the same all the way up through the Troposphere. As altitude increases, air temperature and air pressure decreases. Mountain climbers must dress in warmer clothes as they climb higher. To keep air pressure constant as they gain altitude, airplanes are sealed to prevent air from escaping.

There are three other layers above the Troposphere.

They are the Stratosphere, Mesosphere and Thermosphere. Together they make up the remaining half of all the air that surrounds the Earth. This means the air in these layers is thinner and has less pressure than the air in the Troposphere. The Stratosphere contains a special gas called ozone, which is found in a layer called the ozone layer. This layer blocks out most of the dangerous rays from our sun. These dangerous rays cause sunburn, which can lead to skin cancer. There has been a lot of discussion about this layer over the past twenty years. Scientists have discovered that the ozone layer has gotten thinner due to pollution. Now, more harmful rays reach the Earth. To protect our skin from these rays, we must wear sun block while outside, especially in the summer when we wear less clothing. It is also wise to wear sunglasses on bright days to guard against damage to our eyes.

1. In which layer is air pressure the greatest?

- A. Stratosphere.
- B. Troposphere.
- C. Mesosphere.
- D. Thermosphere.

0%

Confident

___100% Confident 4th(17)

						0	?		
	A.	Pro	cess materia	al so that	it is used	l again.			
	B.		e way the pa			-	nged.		
	C.		keep the air				0		
	D.		sic notes wi	•					
0%							1	00%	
Confident							Cor	ıfident	
3.	An altern	ate title	for this read	ling passa	ge migh	t be:			
	A.	The	e Thinning (Ozone La	yer.				
	В.		Pressure an			e.			
	C.		ather Event						
	D.	The	e Many Lay	ers of the	Atmosp	here.			
0%							1	00%	
Confident							Cor	nfident	
4.	Why did	the word	l Troposphe	re come f	from the	Greek v	word tro	opo?	
	A.	Gre	oka firat dia			nhoro			
			TERS TH SECUS	scovered f	he atmo	SDHELE.			
				covered t reek god (-			
	В.	Tro	po is the G	eek god o	of weath	er.	the Tror	ospher	e.
		Tro The	po is the Gree weather is	eek god o always c	of weath hanging	er. within t	the Trop	ospher	e.
0%	В. С.	Tro The	po is the G	eek god o always c	of weath hanging	er. within t	-	oospher 00%	e.
	B. C. D.	Tro The	po is the Gree weather is	eek god o always c	of weath hanging	er. within t	1	00%	e.
Confident	B. C. D.	Tro The The	opo is the Gr e weather is e Earth is sh	reek god d always c aped like	of weath hanging a sphere	er. within t	1 Cor	00% nfident	
Confident	B. C. D.	Tro The The	po is the Gree weather is	reek god d always c aped like	of weath hanging a sphere	er. within t	1 Cor	00% nfident	
Confident	B. C. D. How are A.	Tro The The health pr Mo	ppo is the Gr e weather is e Earth is sh roblems in h	reek god d always c aped like numans ca rays from	of weath hanging a sphere used by the sun	er. within t	1 Cor nning oz	00% nfident	
Confident	B. C. D. How are A. B.	Tro The The health pr Mc It a	ppo is the Gr e weather is e Earth is sh roblems in h ore harmful t llows pollut	reek god d always c aped like numans ca rays from ion to rea	of weath hanging a sphere used by the sun ich the E	the thir reach E arth.	1 Cor nning oz arth.	00% nfident	
Confident	B. C. D. How are A. B. C.	Tro The The The health pr Mc It a The	ppo is the G e weather is e Earth is sh roblems in h ore harmful n llows pollut ere is less oz	reek god d always c aped like uumans ca rays from ion to rea zone for h	of weath hanging a sphere used by the sun the sun ach the E umans to	the thir reach E arth. o breath	1 Cor nning oz arth. ne.	00% nfident cone lay	ver?
Confident	B. C. D. How are A. B.	Tro The The The health pr Mc It a The	ppo is the Gr e weather is e Earth is sh roblems in h ore harmful t llows pollut	reek god d always c aped like uumans ca rays from ion to rea zone for h	of weath hanging a sphere used by the sun the sun ach the E umans to	the thir reach E arth. o breath	1 Cor nning oz arth. ne.	00% nfident cone lay	ver?
Confident	B. C. D. How are A. B. C.	Tro The The Anne It a The The	ppo is the G e weather is e Earth is sh roblems in h ore harmful n llows pollut ere is less oz	reek god o always c aped like numans ca rays from ion to rea zone for h zone laye	of weath hanging a sphere used by the sun the sun ach the E umans te r is incre	the thir reach E arth. o breath	1 Cor nning oz arth. arth. ne. ne air pr	00% nfident cone lay	ver?
Confident	B. C. D. How are A. B. C.	Tro The The The health pr Mc It a The	ppo is the G e weather is e Earth is sh roblems in h ore harmful n llows pollut ere is less oz	reek god d always c aped like uumans ca rays from ion to rea zone for h	of weath hanging a sphere used by the sun the sun ach the E umans to	the thir reach E arth. o breath	1 Cor nning oz arth. ne.	00% nfident cone lay	ver?
Confident 5. 0% Confident	B. C. D. How are A. B. C. D.	Tro The The Anne It a The The	ppo is the Gr e weather is e Earth is sh roblems in h ore harmful r llows pollut ere is less oz e thinning or	reek god d always c aped like numans ca rays from ion to rea zone for h zone laye	of weath hanging a sphere used by the sun the sun the sun the fill umans to r is incre	the thir reach E arth. o breath casing th	1 Cor arth. arth. ne air pr 1 Cor	00% nfident cone lay ressure 00% nfident	er?
Confident 5. 0% Confident	B. C. D. How are A. B. C. D.	Tro The The Anne It a The The	ppo is the Green weather is e Earth is shown of the second	reek god d always c aped like numans ca rays from ion to rea zone for h zone laye	of weath hanging a sphere used by the sun the sun the sun the fill umans to r is incre	the thir reach E arth. o breath casing th	1 Cor arth. arth. ne air pr 1 Cor	00% nfident cone lay ressure 00% nfident	er?