LAYERS OF THE ATMOSPHERE

EXOSPHERE 800-3000 KM

> - EXOBASE 700 – 1000 KM

THERMOSPHERE 80-90 TO 800 KM

> - KARMAN LINE 100 KM

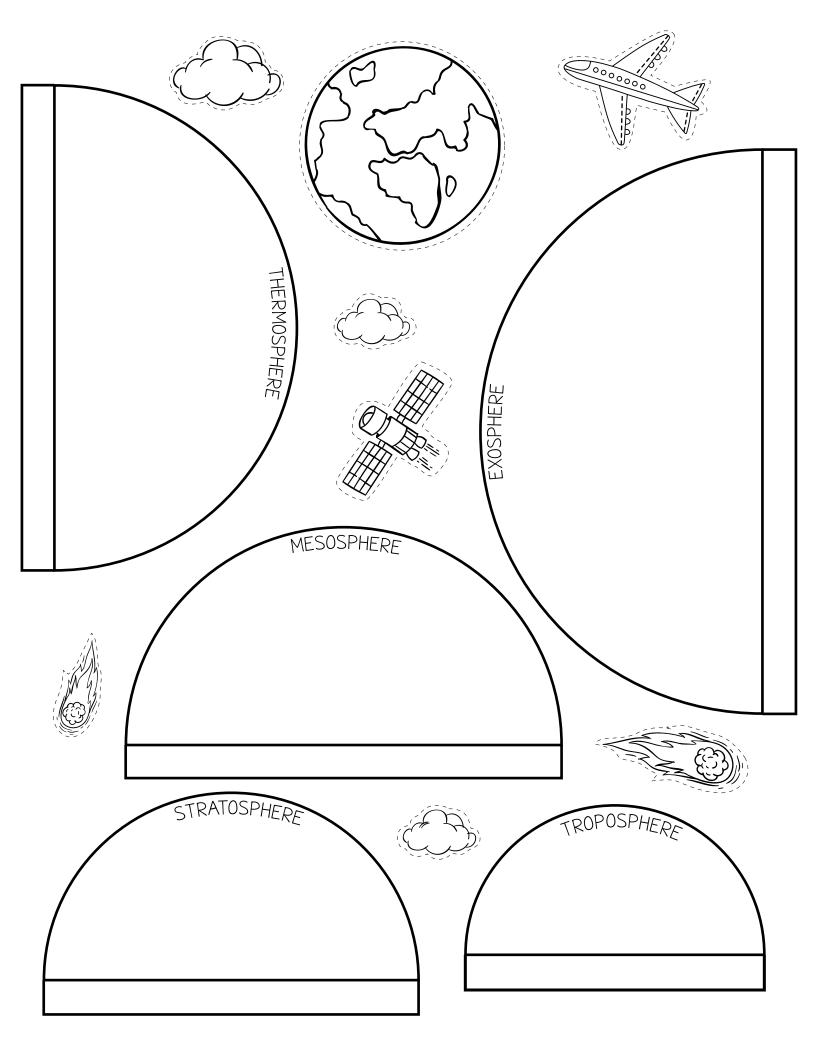
MESOSPHERE

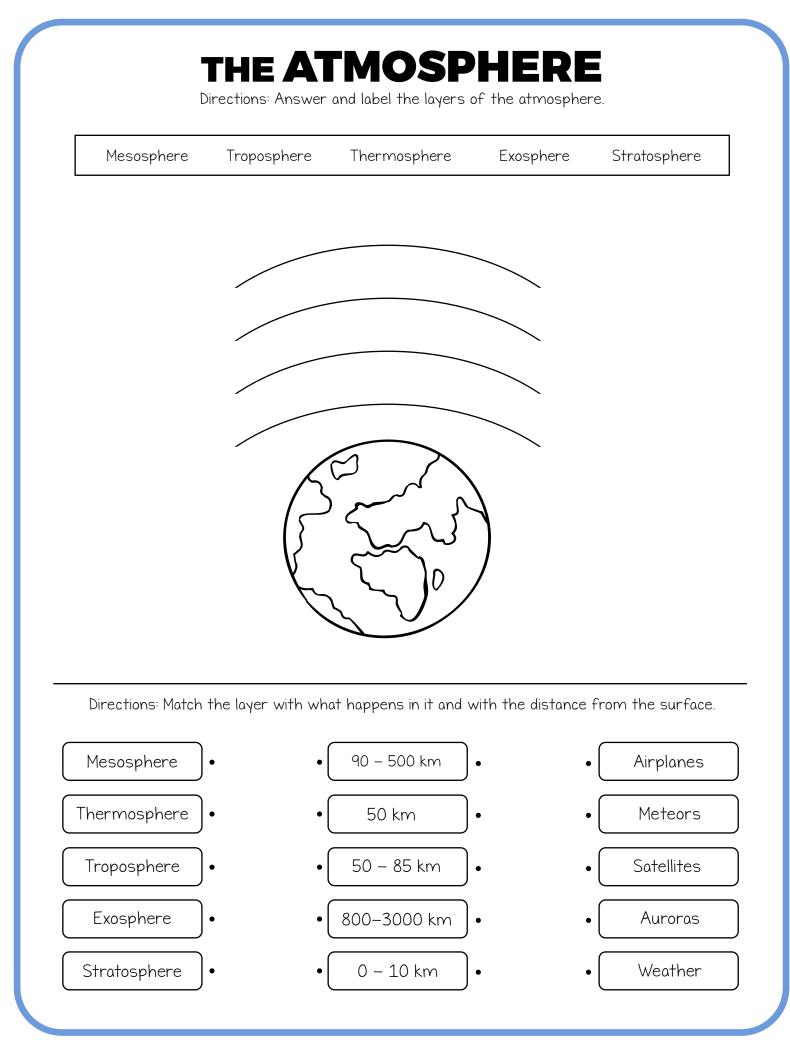
40-50 TO 80-90 KM

STRATOSPHERE

- OZONE LAYER 20-30 KM

TROPOSPHERE





WHAT'S ON YOUR MIND?

On the first box, illustrate the layer of the atmosphere. On the second and third boxes, give the characteristics of the layers of the atmosphere.

Troposphere LAYER		

stratosphere LAYER		
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	MESOSPHERE LAYER	
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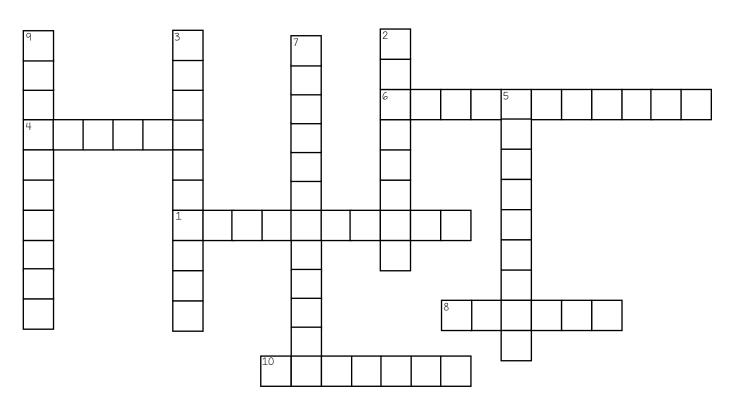
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ATMOSPHERE WORDSEARCH

А	А	F	0	0	Т	Ρ	R	Ι	Ν	Т	В	Ν	Н	J	J	Ρ	А
R	G	В	Ν	R	\vee	Е	Ε	Q	Е	Х	Ι	U	J	L	Κ	Н	G
G	Х	С	F	0	Х	Y	G	Е	Ν	А	А	Ν	Ν	Μ	Н	0	Х
0	Ζ	0	Ν	Е	А	Μ	Ρ	0	Μ	0	Y	R	Y	Y	Н	Т	Ζ
Ν	С	А	А	Ν	В	В	С	А	D	U	S	Т	Ε	\mathbb{W}	L	0	С
\mathbb{W}	F	Y	U	Ι	0	0	Ρ	Ρ	D	\vee	R	Е	Μ	Т	А	S	F
А	Y	В	R	Т	Κ	Κ	Ν	Ν	R	Y	R	R	Μ	А	А	Y	S
U	U	\vee	F	R	А	А	Μ	Е	Т	Н	А	Ν	Е	Н	Н	Ν	Т
В	Ν	Ν	А	0	Е	Е	Т	Y	А	В	В	А	S	D	Ν	Т	R
А	Н	Н	А	G	J	J	Κ	Κ	L	Κ	Н	\vee	0	\vee	Е	Н	А
А	А	С	Н	Ε	Μ	Ι	С	А	L	S	Н	Т	S	В	U	Ε	Т
А	А	А	А	Ν	А	\mathbb{W}	U	Κ	D	Е	0	D	Ρ	В	Т	S	0
А	F	Ε	R	Y	G	Н	J	Κ	Q	А	А	Μ	Н	Ν	R	Ι	S
С	А	R	В	0	Ν	D	Ι	0	Х	Ι	D	Е	Е	Y	А	S	Ρ
В	В	Ν	Ν	G	R	R	Κ	Κ	L	G	А	А	R	Ι	L	А	Н
А	Ν	В	Y	R	U	Е	R	L	D	G	А	G	Е	U	А	А	Е
А	Ρ	А	R	Т	Ι	С	U	L	А	Τ	Е	G	А	Ρ	0	0	R
U	F	R	R	Q	F	А	\mathbb{W}	Ε	А	Τ	Η	Ε	R	U	Y	А	Ε

OZONE PHOTOSYNTHESIS FOOTPRINT METHANE ARGON CHEMICALS PARTICULATE DUST NEUTRAL WEATHER OXYGEN CARBON DIOXIDE STRATOSPHERE MESOSPHERE NITROGEN

ATMOSPHERE CROSSWORD PUZZLE



ACROSS

- 1. It is composed of about 78% nitrogen, 21% oxygen, and one percent other gases.
- 4. It is the second most abundant gas in the atmosphere.
- 6. It is a physical quantity that expresses hot and cold or a measure of the average kinetic energy of the atoms or molecules in the system.
- 8. It is the result of disturbances in the magnetosphere caused by the solar wind.
- 10. It is a state of the atmosphere at a particular place during a short period of time. It involves such atmospheric phenomena as temperature, humidity, precipitation, air pressure, wind, and cloud cover.

DOWN

- 2. It is a common element in the universe, estimated at seventh in total abundance in the Milky Way and the Solar System.
- 3. It is a layer in the stratosphere which absorbs most of the ultraviolet radiaton reaching the earth from the sun.
- 5. It is a thin, atmosphere-like volume surrounding a planet or natural satellite where molecules are gravitationally bound to that body, but where the density is so low that the molecules are essentially collisionless.
- 7. It is located above the troposphere and below the mesosphere.
- 9. It is where Earth's atmosphere meets space.

ALL ABOUT	
THE ATMOSPHER	E

Directions: Fill in the missing words.

The Earth is surrounded by a blanket of air called ________.
The atmosphere is a mixture of _______.
Ozone keeps most of the sun's harmful ________ from reaching the earth.
_______, ______, and _______ are the three most abundant elements in the atmosphere.
The layer of atmosphere closest to earth is the _______.
About three fourths of the atmosphere is _______.
The layers of the atmosphere are broken down into _______.

8. _____ is the coldest layer of the atmosphere.

9. The temperature in the troposphere_____as the altitude increases.

- 11. Most atmospheric ozone is concentrated in a layer in the stratosphere, about ______ above the Earth's surface.
- 12. The closer we get to the ground, the ______ the atmospheric pressure due to the weight of air particles above.