ATMOSPHERE NOTES

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W11a6 15 16?	molecules push on a surface			
• is a mixture of gases that surrounds Earth.	 It is strongest at Earth's surface because there is more air above you. 			
 Contains you breathe 	Agricul do un in a quar from the goo level fewer			
Protects from sun's rays	 As you go up in, away from the sea level, fewer gas molecules are above you and air pressure decreases Layers of the Atmosphere 			
 The atmosphere is always changing. 				
It protects living things from from the sun, and from height hit has sharpled of most space pooled. We metagged and	 Based on, divided into four main layers 			
being hit by chunks of most space rocks, like meteors and asteroids!!	Each ends in "sphere"			
Not what you think!	means "turning" or "change" since the troposphere is			
– 78%(N)	always changing			
- 20 . 95%(0)	• means "layer" since the layers do not mix there			
– 0.93%(Ar)	means "middle"			
- 0.038%(GO ₂)	• means "heat" since it is the hottest			
 Trace amounts of other gases and dust 	means "outside"			
 About 1% water vapor 	 There are 4 layers in the atmosphere 			
Water Vapor	 They are the, mesosphere,, and stratosphere 			
in the air exists as liquid droplets, and solid water (snow and ice) and the rest is water vapor	Layers of the Atmosphere: Troposphere			
• Water vapor is an gas.	This is the layer that is to the surface of the earth			
	 It's elevation ranges from 0 to 10 km 			
	Rain,, storms, and most occur here.			

Air pressure

is the measure of the force with which air

Layers of the Atmosphere: Stratosphere

- This layer sits on top of the troposphere
- It's elevation ranges from 10 km to around 25 km
- This layer contains the _____ layer, which protects us from harmful _____

Layers of the Atmosphere: Mesosphere

- This layer is above the stratosphere
- It's elevation ranges from 25 to 100 km
- Most _____ burn up in this layer, producing meteor trails.

Layers of the Atmosphere: Thermosphere

- This is the _____ layer of the atmosphere
- It's height ranges from 100km. It has not definite outer limit
- This is where most small meteorites burn up and is also the location in the atmosphere that the northern lights occur (aurora borealis)
 - -----
 - Lower level of the _____
 - begins 80 kilometers above the surface and ends at 550 kilometers.
 - Energy from the sun causes gas molecules in the ionosphere to become electrically charged particles called ions.
 - Radio waves bounce off ions in the ionosphere and then bounce back to Earth's surface.

The Exosphere

- the ____layer of the thermosphere.
- The exosphere extends from 550 kilometers outward for thousands of kilometers
- When you make a long-distance phone call or watch television, the signal may have traveled up to a satellite orbiting in the exosphere and then back down to your home.
- are also used for watching the world's weather and carrying telescopes that look deep into space

