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Components of Envrionment

4 Major Components

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Lithosphere	Litho = Rock
Hydrosphere	Hydro = Water
Atmosphere	Atmo = Air
Biosphere	Bio = Life

The planet Earth is categorised into different spheres which represent solid [rock/soil], liquid [water], and gaseous [air] phases. The overlapping zone of the three spheres is called the biosphere, where life can exist.

Atmosphere: (Greek: Atmos means vapor)				
✦gaseous	✦Content of water vapor,			
mixture which	density of the air mass			
envelops the	and atmospheric pressure			
planet earth is	decreases rapidly with the			
called	increase in altitude			
atmosphere				
Composition of c	Iry air			
Component	Volume %			
Nitrogen	78%			
Oxygen	20%			
Argon	0.9%			
CO2	0.04%			

Remaining

Layers of atmosphere & temperature



The rate of change of temperature with the altitude is called lapse rate. The atmosphere has

been stratified into major four layers where temperature decreases (negative lapse rate) or

increases (positive lapse rate).

Lithosphere: (Greek: Lithos means rock)

✦Lithosphere is the outermost layer of the crust which represents the land mass of the planet.

- ♦ consists of rocks, soil, sediments and minerals.
- ◆geological structures or landforms like high mountains, plateau, deep valleys and sea beds make the surface of lithosphere uneven
- ◆geological processes like weathering & erosion, volcanic eruptions, biogeochemical cycles take place at the lithosphere
- ◆Different terrestrial ecosystems like forests, grasslands, deserts etc. are found on the lithosphere

Cross Section of Lithosphere



Earths structure can be stratified into -Outer Crust -Middle Mantle -Inner Core

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C

Gases in

Traces

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4 Major La	ayers of Atmosphere	Hydrosphere: (Greek: Hydor n	neans water)	
altitude is	ange of temperature with the called lapse rate	✦represents water masses in cover, glaciers etc.), liquid (wa and gaseous (water vapors) p	ter bodies)	
◆Tropo- sphere	upper layer is called tropopause	 covers almost three-fourth of the total surface area of the earth. 		
◆Strat- osphere	Ozone layerin this region absorbs harmful UV radiation, particularly UV-B radiation because of which life is possible on earth's surface	 saniace area of the carm. is an integral part of the water cycle and plays a crucial role in maintaining normal climatic, meteorological, physical, chemical and biological functions on the planet 		
✦Meso sphere	Density of air is very low and important chemical species found in this region are O2 + and	 ◆Oceans and seas are the lar carbon in the environment. Total water 	gest sink of	
◆Therm osphere	NO+ ionic oxygen atoms and other ions in this layer absorb short wave solar radiation which increases the temperature in this	97% Salt Water + 3% Fresh W Total Fresh water = 2% Ice Ca Surface and Ground Water	aps + 1%	
	layer	Biosphere:(Greek: Bios means life) ✦self-regulating overlapping region of atmosphere, lithosphere and hydrosphere		
		 ◆the environment where life sustainably exists, nourished and flourished by the healthy interaction between biotic and abiotic components 	 biotic (autotrophs and hetero- trophs) 	
			 ◆abiotic components (air, water, sunlight, soil, rock etc.) 	
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