

Notes M3

Atmospheric pressure - the pressure exerted by the atmosphere on all objects within it.

Barometer - An instrument used to measure atmospheric pressure.

14.7 pounds per sq in is the average.

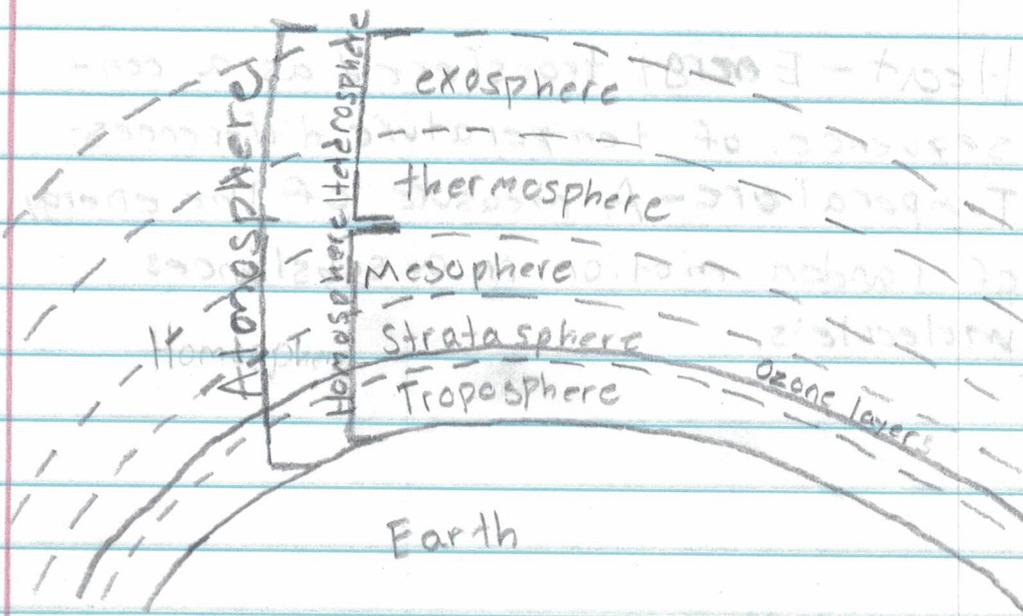
760 is the average mmHg

1.0 atm is the average atmospheric pressure

.9 is under average

1.1 is over average

layers of the earth



STUDY GUIDE M3

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1 Atmosphere = The mass of air surrounding the planet

Atmospheric pressure = The pressure exerted by the atmosphere on all objects within it

Barometer = An instrument used to measure atmospheric pressure.

Homosphere = The lower layer of earth's atmosphere, which exists from ground level to roughly 80 kilometers above sea level.

Heterosphere = The upper layer of earth's atmosphere. Above 80 kilometers.

Troposphere = The layer of the atmosphere that extends from ground level to roughly 11 kilometers above sea level.

Stratosphere = The region roughly 11 to 48 kilometers.

Mesosphere = The region roughly 48 to 80 kilometers.

Jet streams = Narrow bands of high-speed winds that circle the earth, blowing from west to east.

Heat = Energy that is transferred as a consequence of temperature differences.

Temperature = A measure of the energy of random motion in a substance's molecules.

ON YOUR OWN M3

- 3.1 It would decrease because there is no gravity in space.
- 3.2 It would be 32.9 in.
- 3.3 Milk would be homogeneous and salad dressing would be heterogeneous.
- 3.4 It doesn't matter if it is 21% oxygen the higher the altitude the harder it is to breathe.
- 3.5 It will not really be affected because most of the storms are below them.
- 3.6 It will start melting when it reaches the end of the stratosphere.
- 3.7 There heat in the system.
- 3.8 I think it is correct, because the energy from the substance went to the thermometer to make it hotter.
- 3.9 It wouldn't be able to do it because of the polar vortex.
- 3.10 because the "hole" was for a small amount of time.
- 3.11 yes, you would.