

**8. Density of atmosphere.**—*a.* We live at the bottom of a deep sea composed of a mixture of many gases that make up a very highly compressible fluid, the air. This fluid has a mass similar to any other substance and is therefore subject to the forces of gravity. The gravitational force, owing to the mass of the earth, pulls the air toward it and thus holds the earth's atmosphere.

*b.* Since this fluid, the atmosphere, is compressible, those layers or parts at the bottom are compressed considerably more than the upper layers that are not supporting so great a weight of air above them.

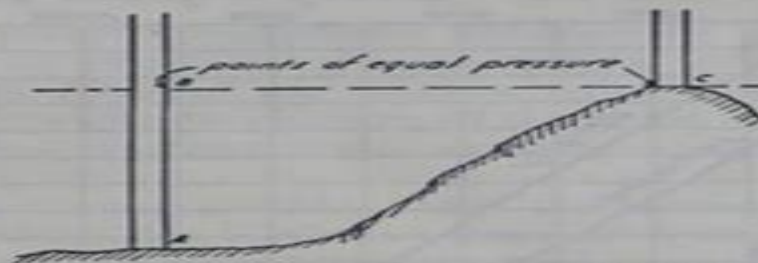


FIGURE 1.—Decrease of pressure with altitude.

Thus the density of the air close to the surface will be greater than the density of air at a higher elevation.

*c.* Density is defined as mass per unit volume ( $\frac{\text{mass}}{\text{volume}}$ ). Thus the density of the atmosphere may be measured and expressed either in terms of grams per cubic centimeter or in pounds per cubic foot.

*d.* At ordinary pressure and temperature, the weight of a sample of air near the earth's surface is about  $\frac{1}{800}$  of the weight of an equal volume of water. Thus it has been found that 1 cubic foot of air weighs about 0.075 pound and that 1 cubic centimeter of air weighs about  $13 \times 10^{-4}$  grams (0.0013 gram) near the earth's surface. Thus, the density of air near the earth's surface is about 0.075 pound per cubic foot and  $13 \times 10^{-4}$  grams per cubic centimeter.

*e.* It might be of interest to note and compare the molecular weights of air and water. That of air is 28.735, whereas water has a molecular weight of 18.00.

*f.* In consequence of this weight, the atmosphere exerts a certain pressure upon the earth's surface. The physicist defines pressure as the force distributed over a unit area in terms of pounds per square inch, grams per square centimeter, and so on. In any fluid, the pressure on the bottom is equal to the weight of the fluid above the surface divided by the area of the surface.

# Elementary Physics For Pilot Trainees Te

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