Air Pressure

How to measure the air around us.

Air pressure

is the force exerted on you by the weight of tiny particles of air (air molecules). Although air molecules are invisible, they still have weight and take up space. Since there's a lot of "empty" space between air molecules, air can be compressed to fit in a smaller volume.

At sea level, the air pressure is about 14.7 pounds per square inch.

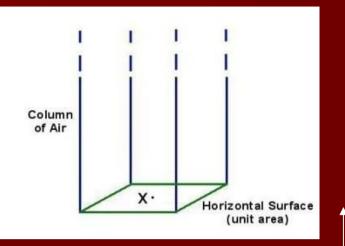
=1013.2 millibars

=1013.2 Hectopascal

=29.92 inches of mercury



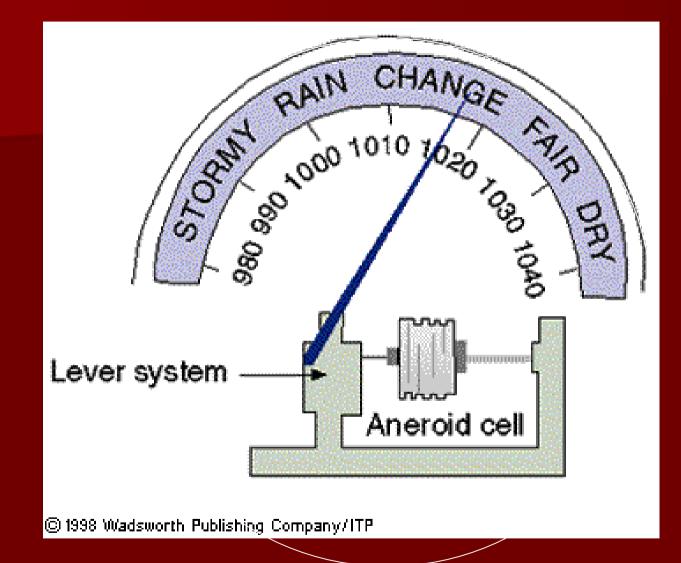
 Low pressures ~ 1005mb.
High pressures ~ 1040 mb.



Under a low pressure area, air is rising and as a result, the surface has less air molecules than before. Under a high pressure area, air is sinking towards the surface and piles up before spreading out.



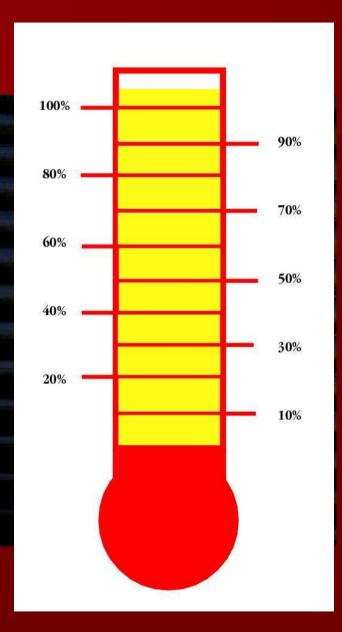
Digital Barometer



Temperature

is a measure of the average heat or thermal energy of the particles in a substance.





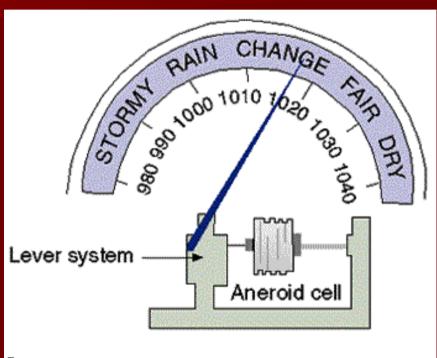
Unit of temperature

Degrees Celsius
Degrees Fahrenheit

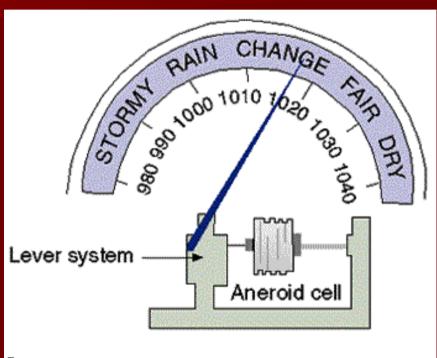
1. <u>2.</u> Unit of temperature 3._____is the force exerted on you by the weight of tiny particles of air At sea level, the air pressure is about 4. _____inhg 5. _____millibars 6. _____ pounds per square inch(psi) 7. _____ is a measure of the average heat or thermal energy of the particles in a substance



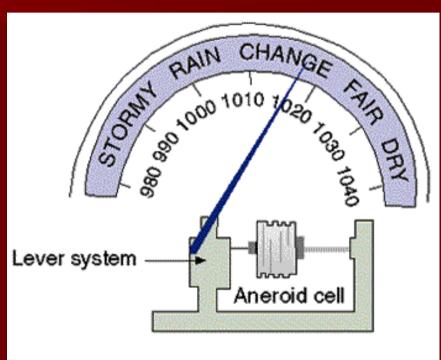
■ 8.



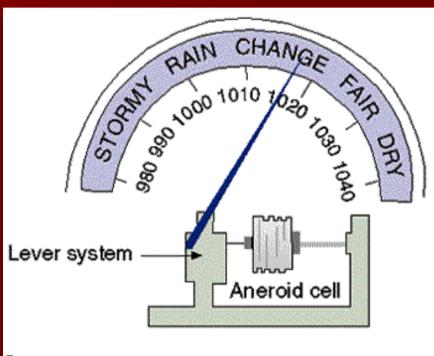




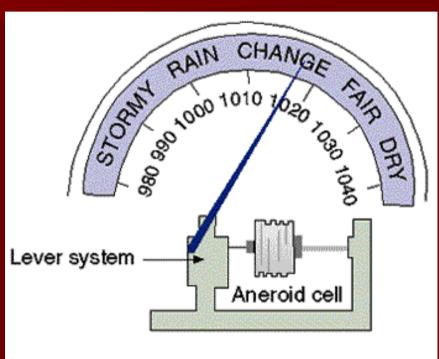




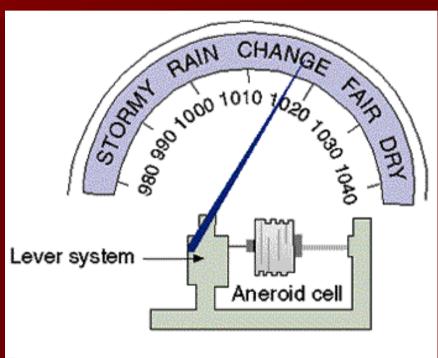












14



15.____



17.



18.____



19



20.____

