

Kinetic Theory.

Matter made up of particles  
Particles are in constant motion, meaning they have kinetic energy  
Gas particles have a lot of space between them

Temperature.

Definition: measure of the average kinetic energy of a substance  
SI units: Kelvin,  $K^{\circ}$ ,  $F^{\circ}$ ,  $C^{\circ}$   
Other units:

Volume.

Definition: amount of space substance takes up  
SI unit: Liters, L  
Other units: gallon, meters cubed, pint

Pressure.

Definition: forces exerted over a certain area  
SI unit: Pascal,  $Pa = N/m^2$   
Other units: atmospheres, torr, bar, mm Hg, in Hg

