

States of Matter

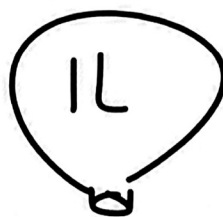
Solid Fixed Volume
Fixed Shape

Liquid Fixed Volume
Variable Shape

gas Variable Volume
Variable Shape

Volume (L) [V]

Space a gas fills
in the environment



smaller
less V



larger
more V

Temperature (K) [T]

Speed a gas particle
travels in the environment.

Higher T

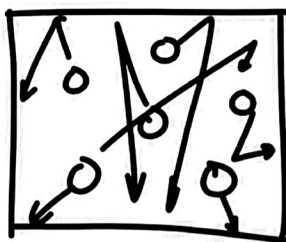
Lower T

1 sec.

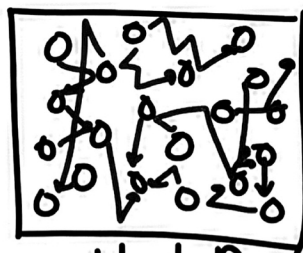
K (Kelvin) - Absolute Temp.
(0K = No motion)

Pressure (atm) [P]

of atom collisions
per unit of time (sec./min)



Low P
Less Collisions



High P.
More Collisions