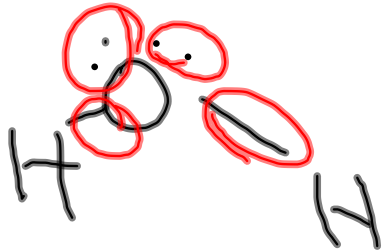


linear  $sp$  2  $e^-$  cloud

trigonal planar  $sp^2$  3  $e^-$  cloud  
bent

tetrahedral  $sp^3$  4  $e^-$  cloud

trigonal pyramidal 1 lone pair  
bent  $NH_3$   
 2 lone  
 $H_2O$

trigonal bipyramidal  $sp^3d$  5  $e^-$  cloud

see saw 1 lone

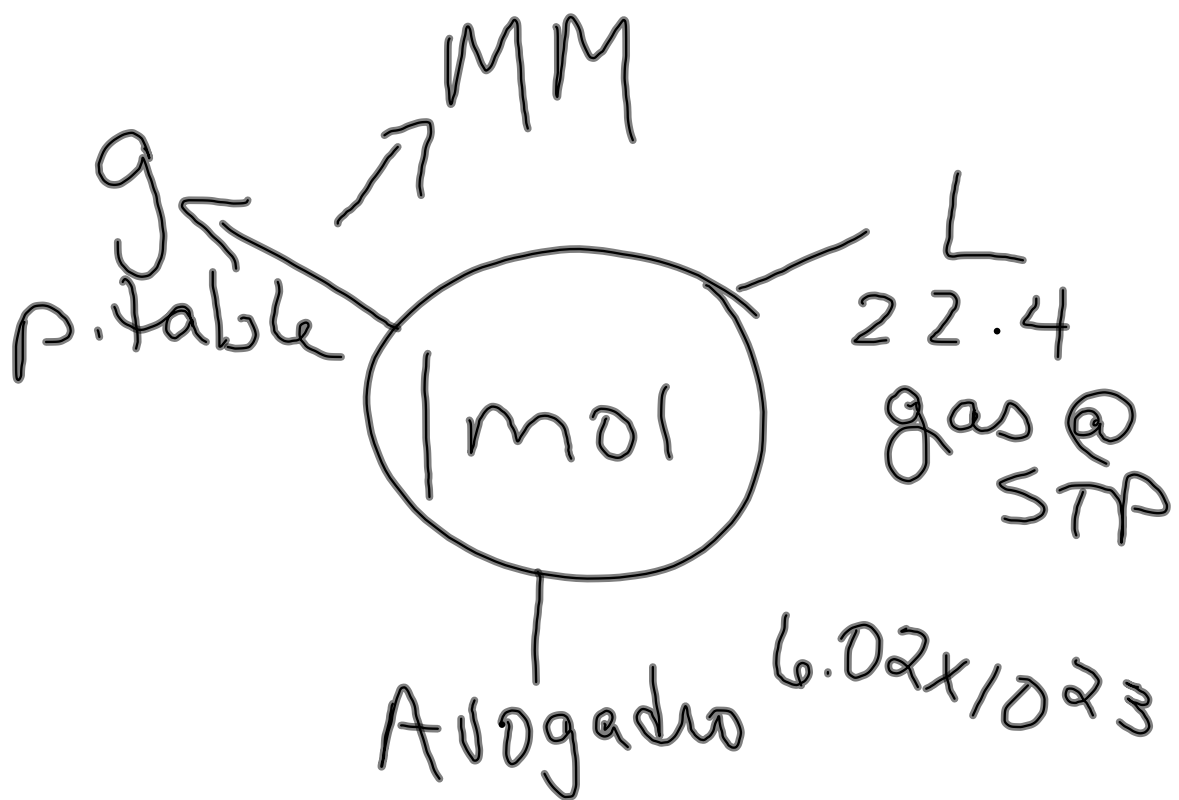
T shape

linear

6 e<sup>-</sup> cloud  $sp^3d^2$

octahedral

eg. pyramidal  
" planar



$$\text{Molarity} = \frac{\text{mole of solute}}{\text{L of soln.}}$$

$$\text{molality} = \frac{\text{moles of solute}}{\text{kg of solvent}}$$