

### FUNDAMENTAL VIBRATIONS

Fundamental vibration is also divided into types:

STRETCHING VIB.

1.Streching vibration Involves a continuous change in the inter atomic distance along the axis of the bond b/w 2 atoms.

2.It requires more energy so appear at shorter wavelength.

BENDING VIB.

1.Bending
vibrations are
characterized by a
change in the angle
b/w two bonds.

2.It requires less energy so appear at longer wavelength.

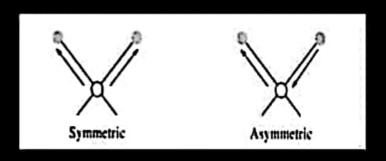
## Now, streching vibration is further divided into:

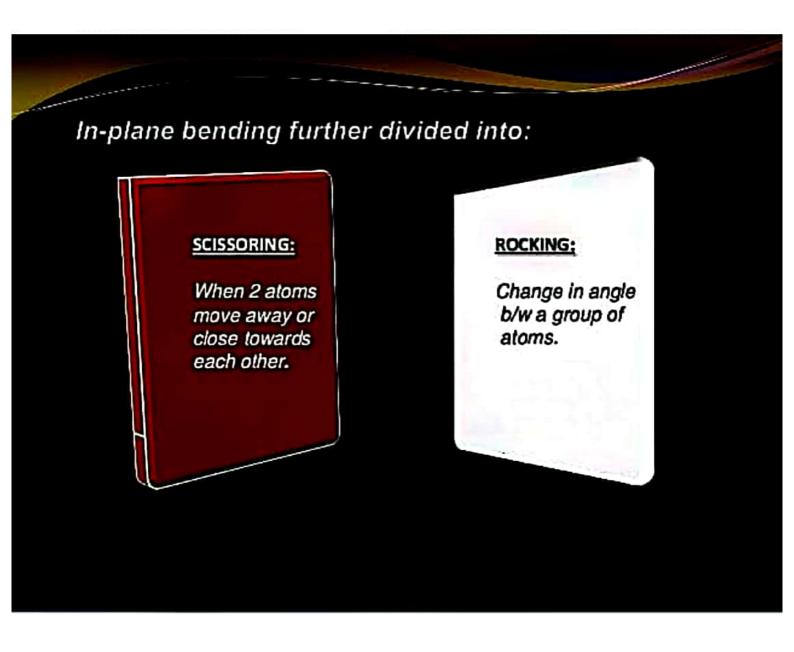
#### SYMMETRIC VIB.

 Inter atomic distance b/w 2 atoms increases/decreases.

### ASYMMETRIC VIB.

 Inter atomic distance b/w 2 atoms is alternate/opposite.





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