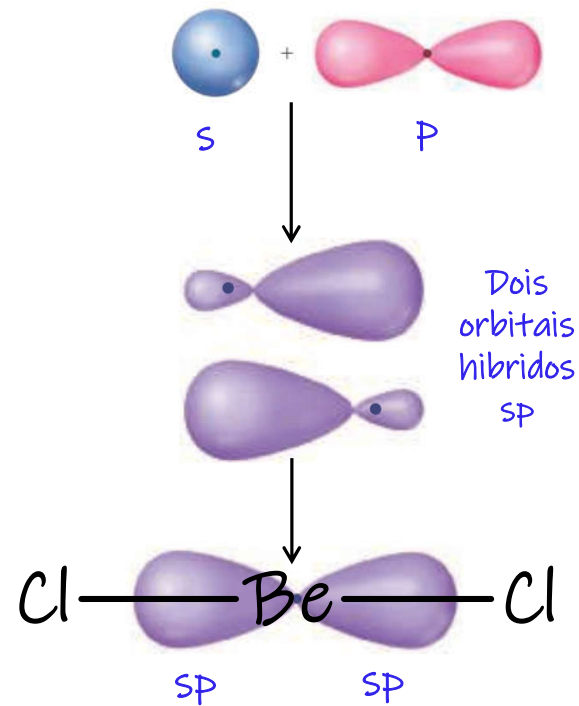
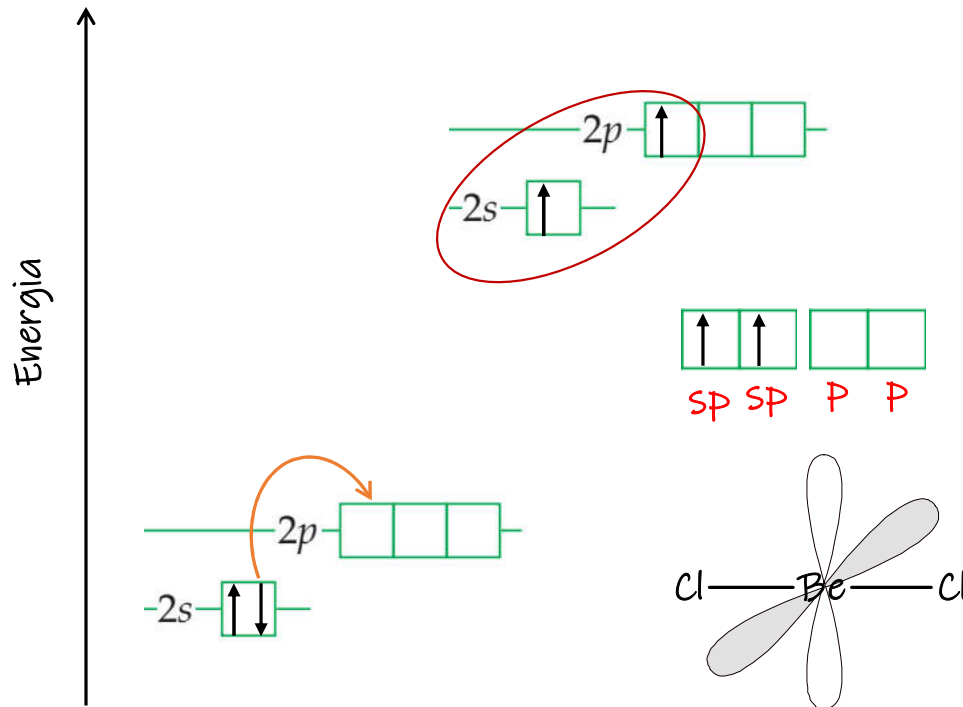
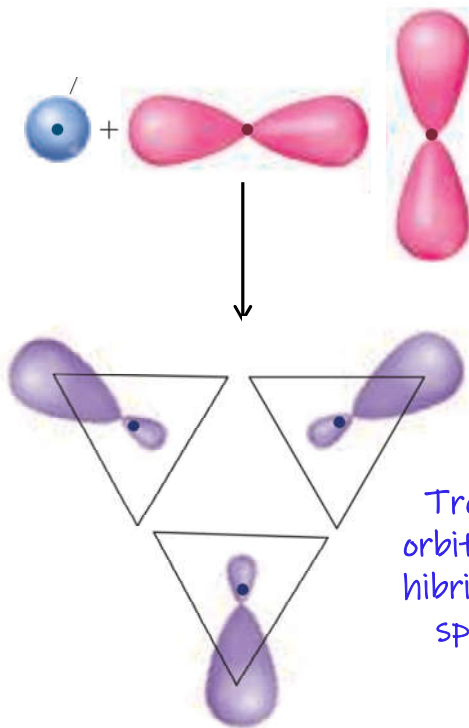
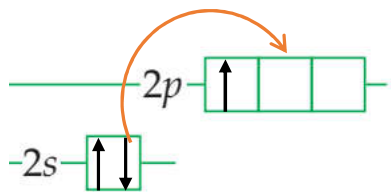
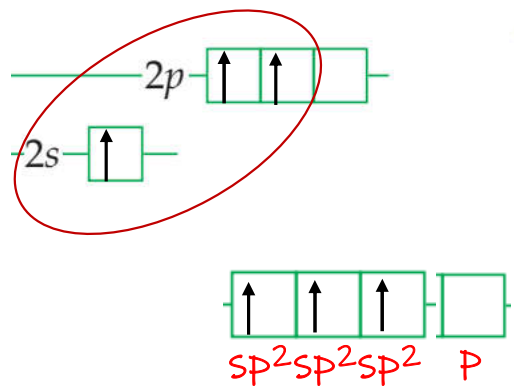
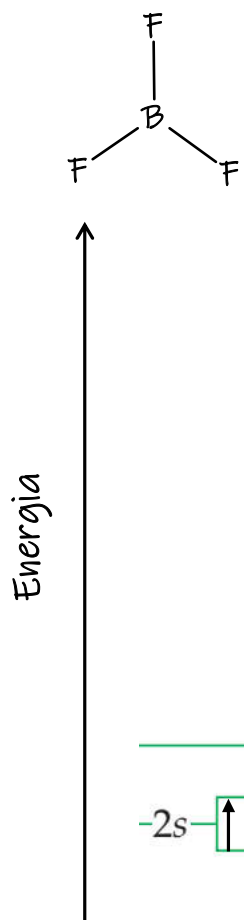


Aula 6 QE

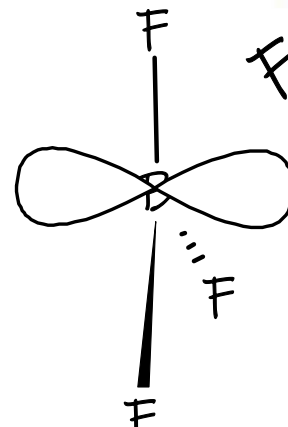
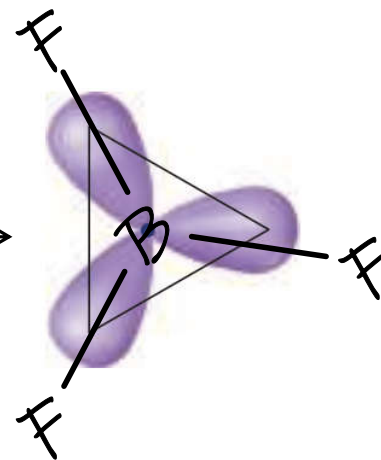
Orbitais e Hibridização



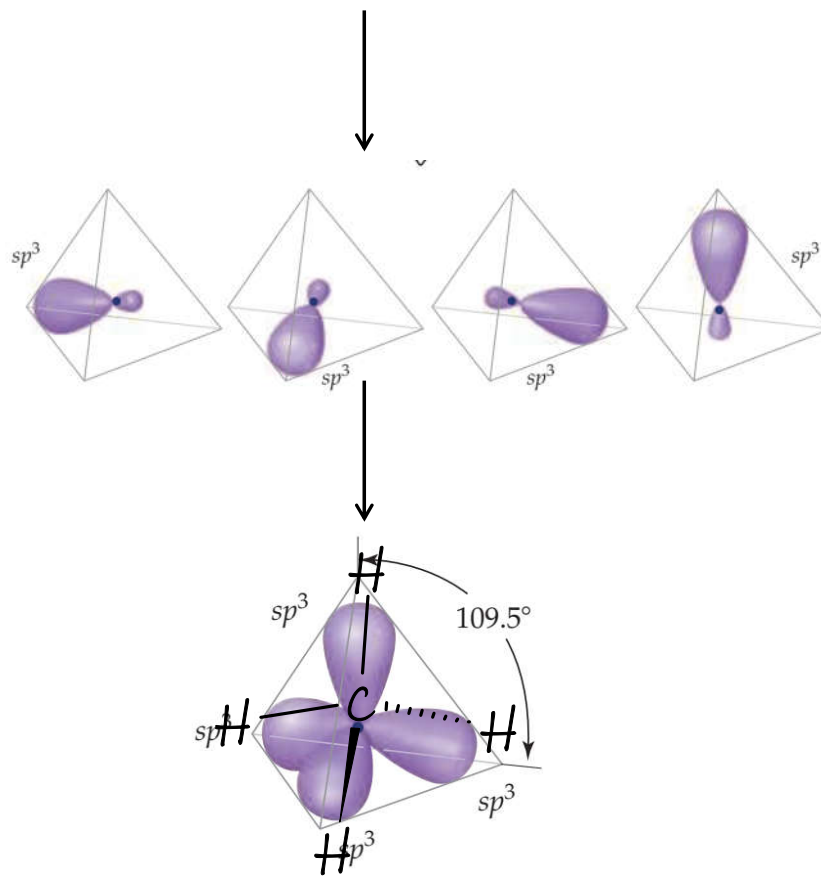
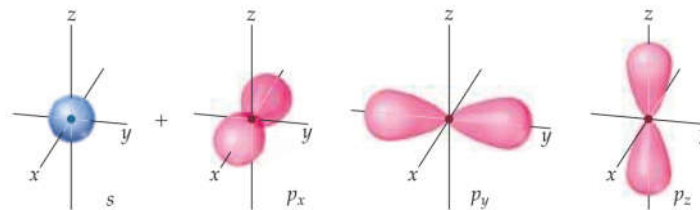
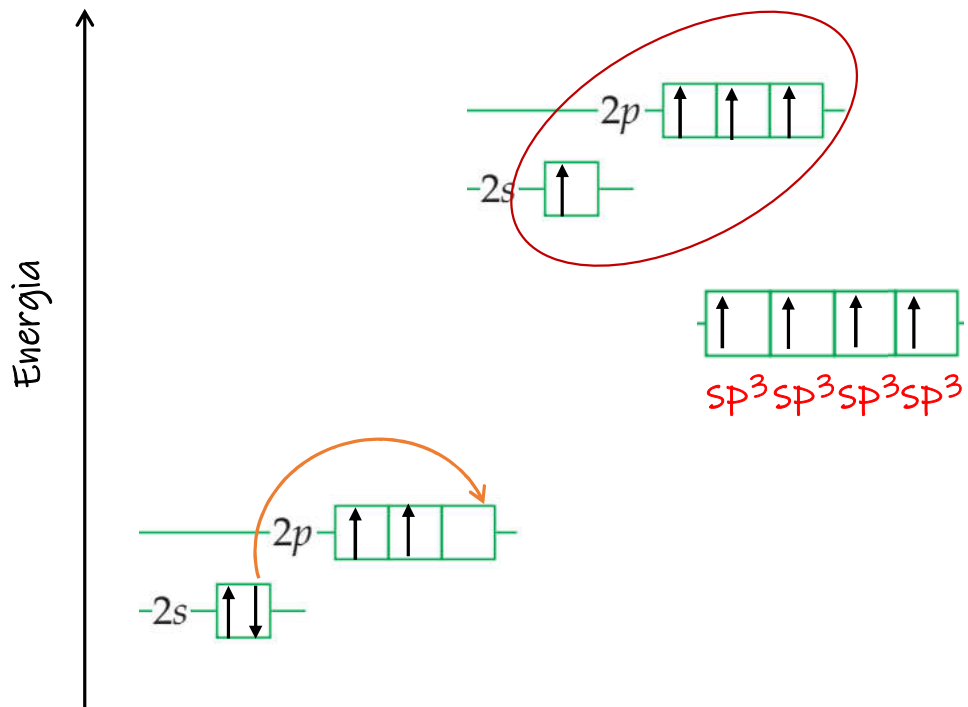
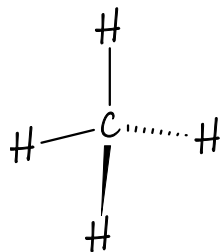
${}_5\text{B}: 1s^2 2s^2 2p^1$



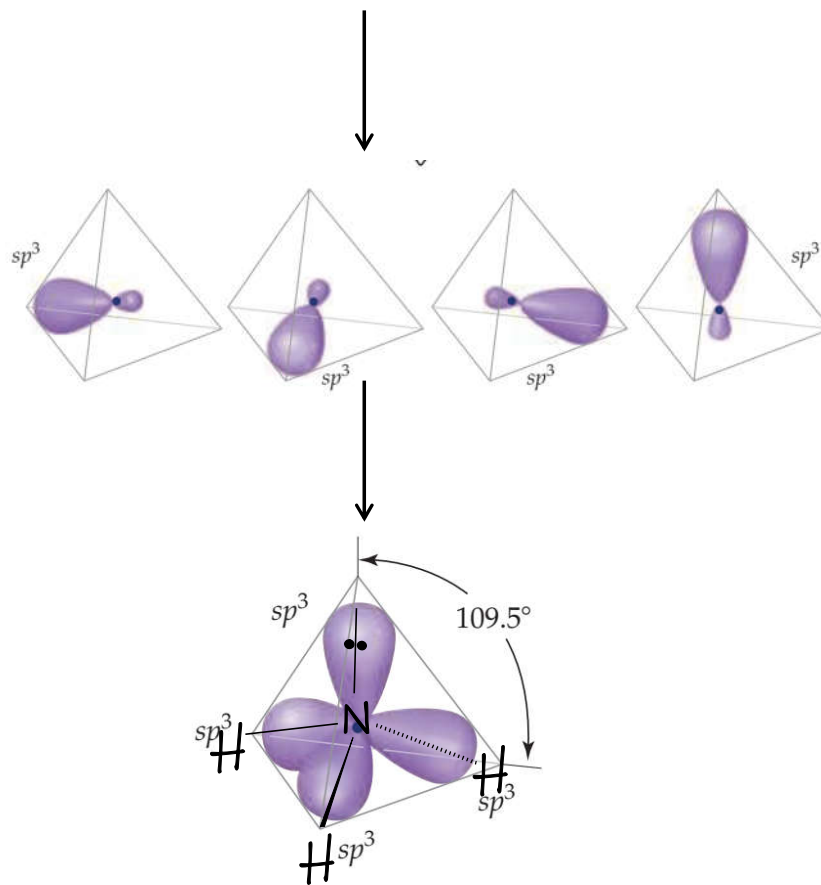
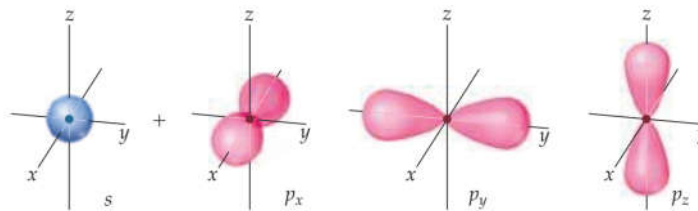
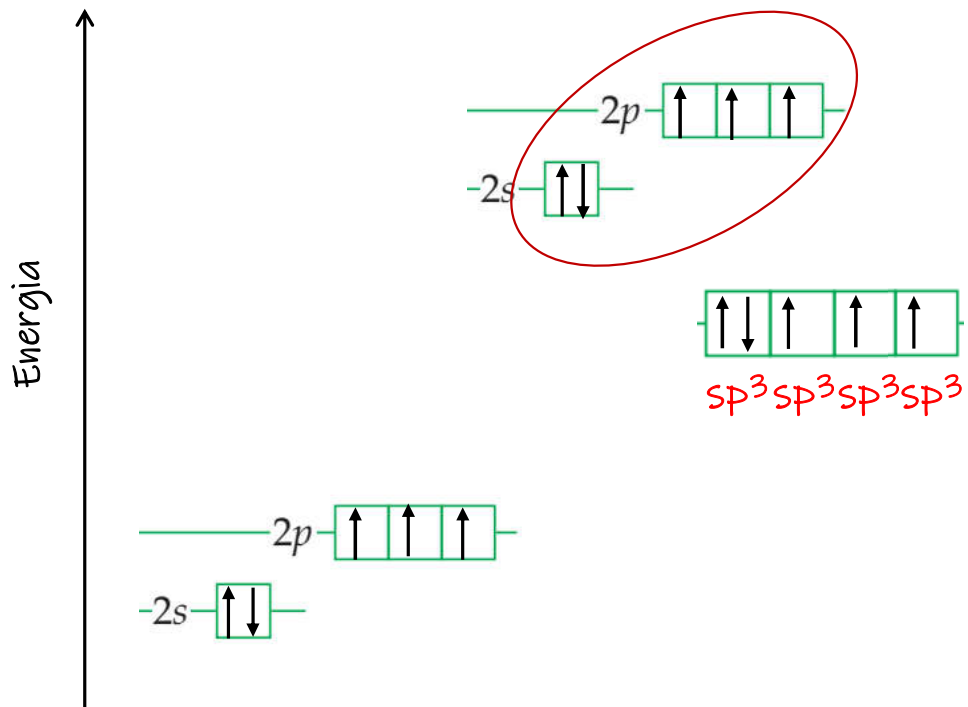
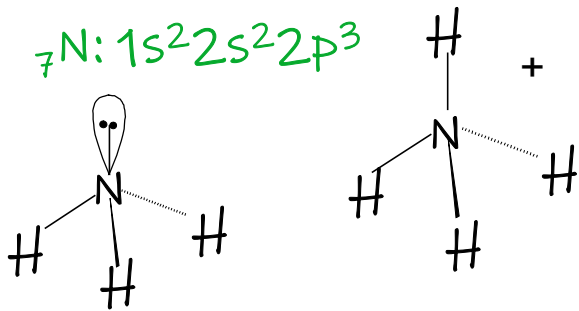
Tres orbitais hibridos sp^2



${}^6\text{C}: 1s^2 2s^2 2p^2$

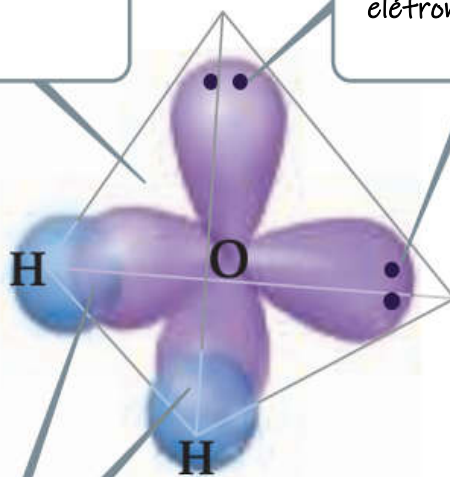


${}^7\text{N}: 1s^2 2s^2 2p^3$

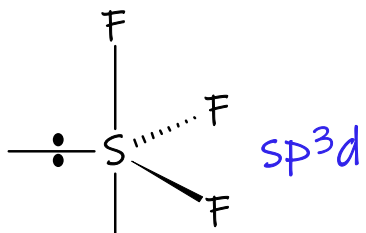


arranjo tetraédrico para 4 orbitais sp^3 do oxigênio

2 orbitais sp^3 contêm pares de elétrons isolados

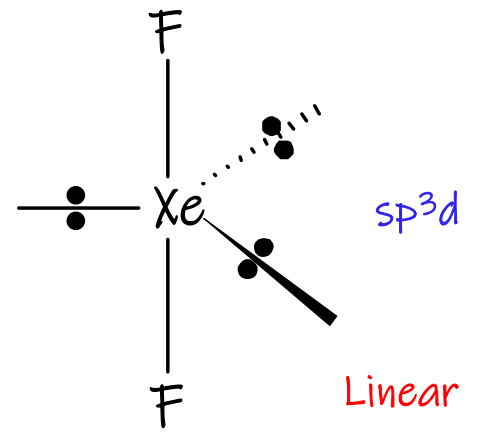
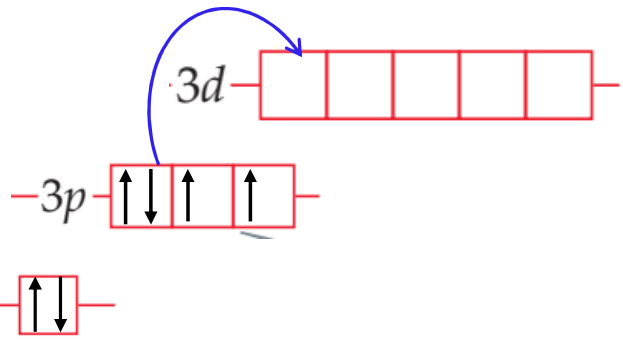
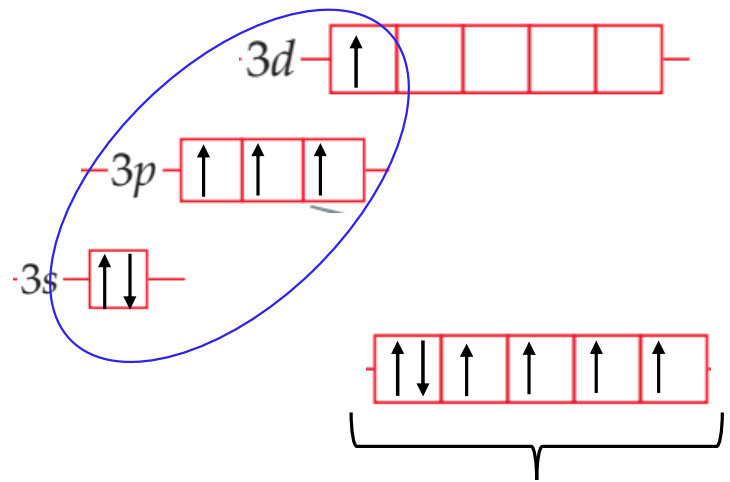


ligações simples O-H



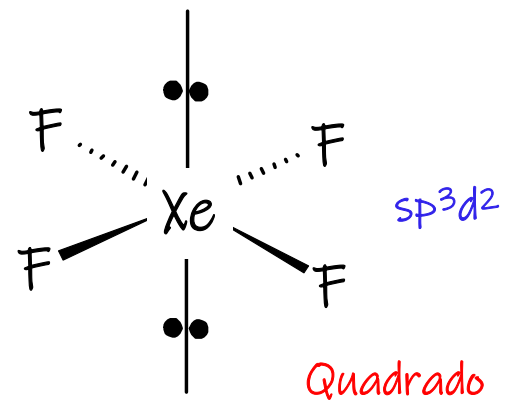
sp^3d

Energia



sp^3d

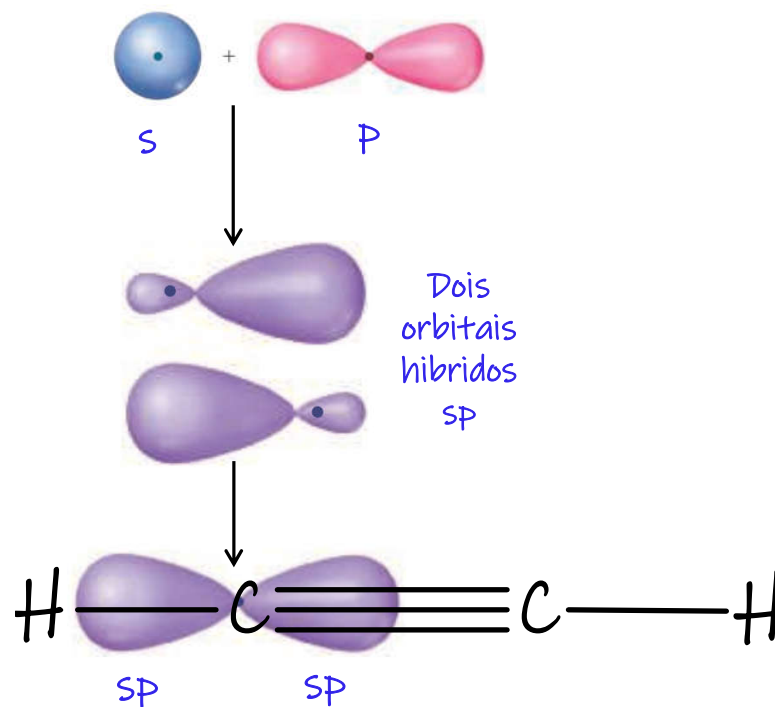
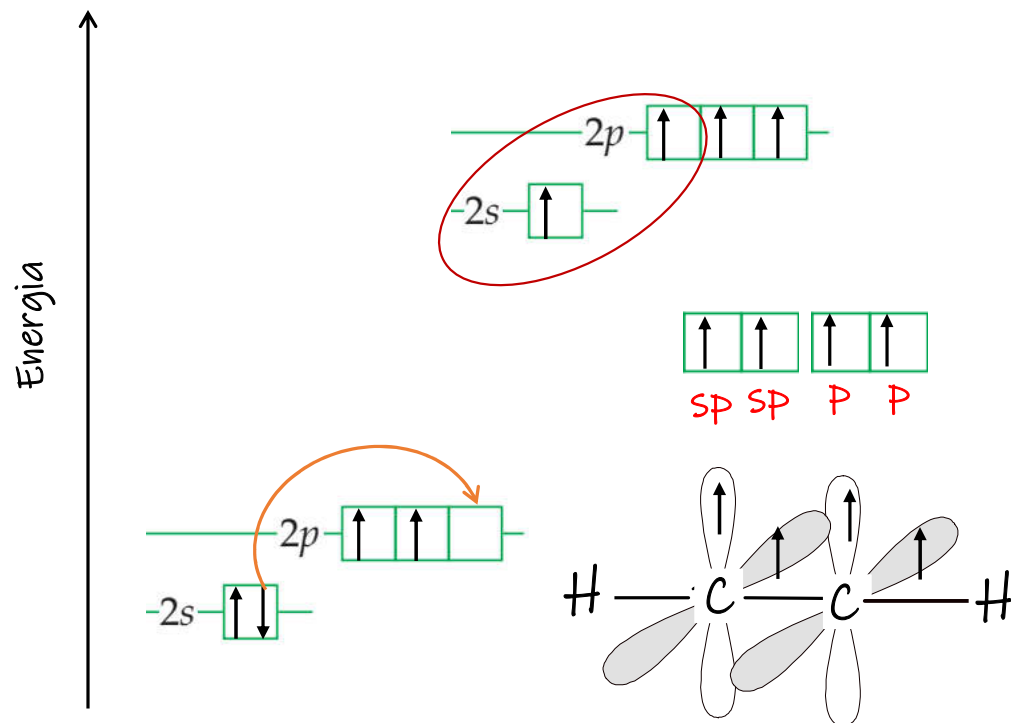
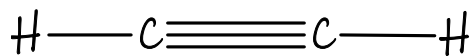
Linear



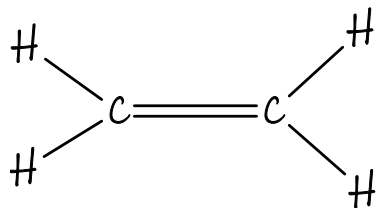
sp^3d^2

Quadrado planar

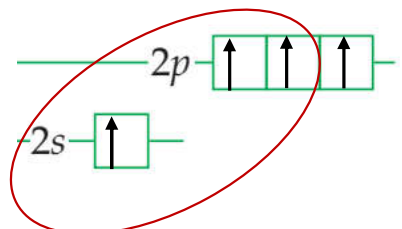
Ligações Múltiplas



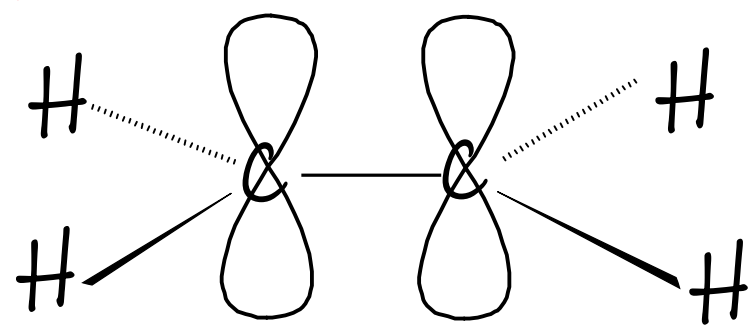
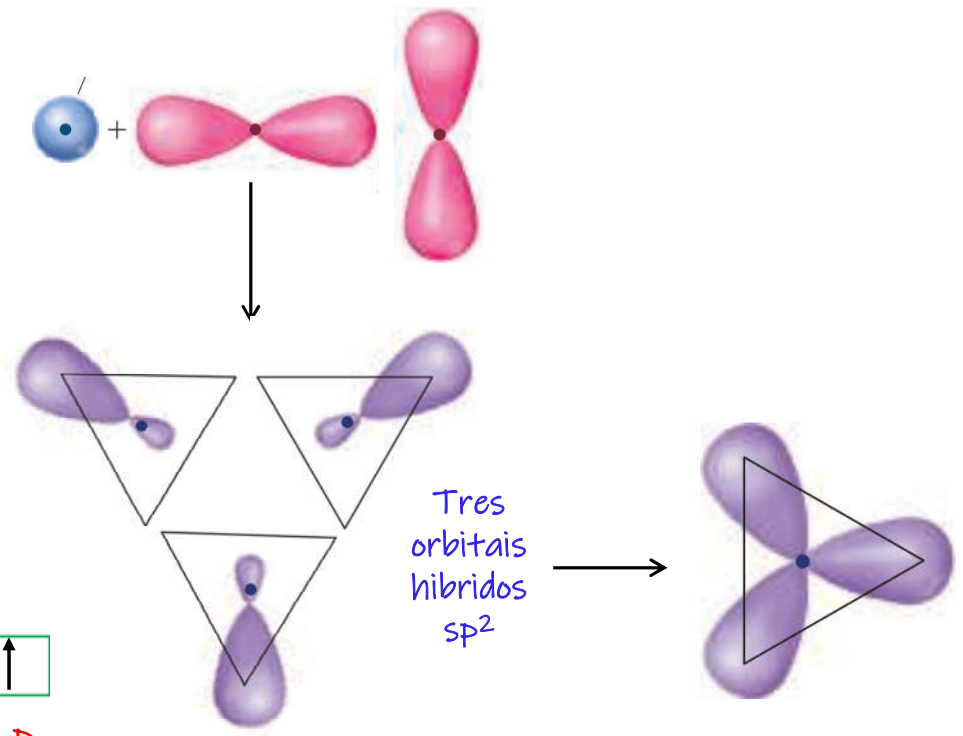
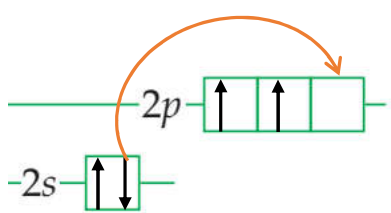
${}^6\text{C}: 1s^2 2s^2 2p^2$



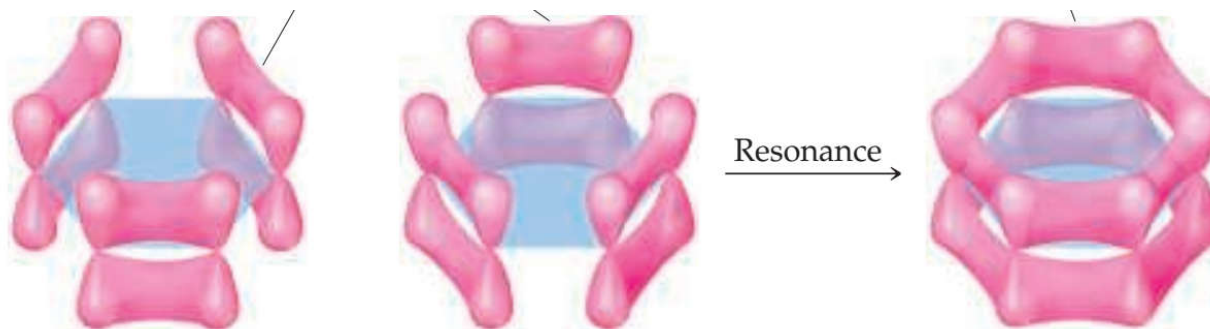
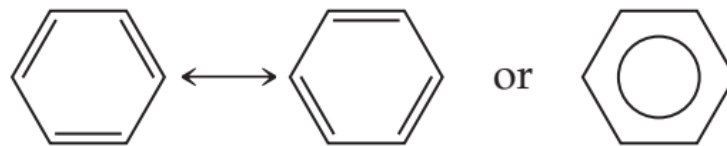
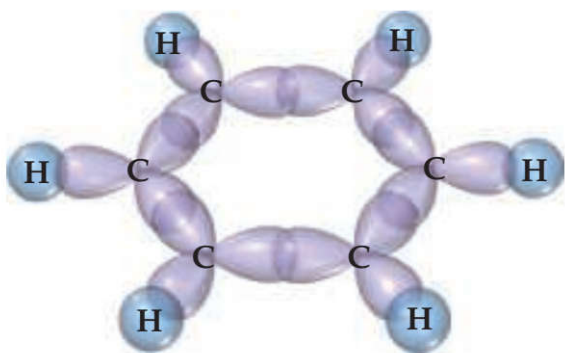
Energia ↑

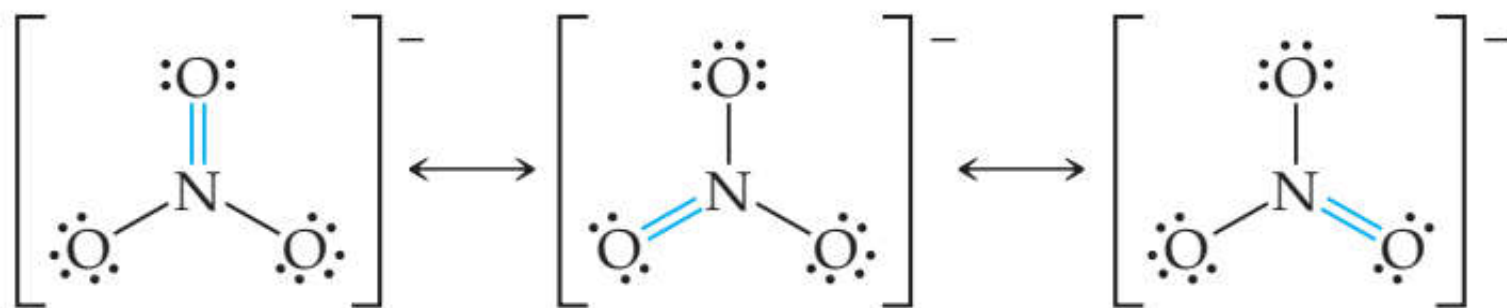


$sp^2 sp^2 sp^2 p$



Ressonância, deslocalização π

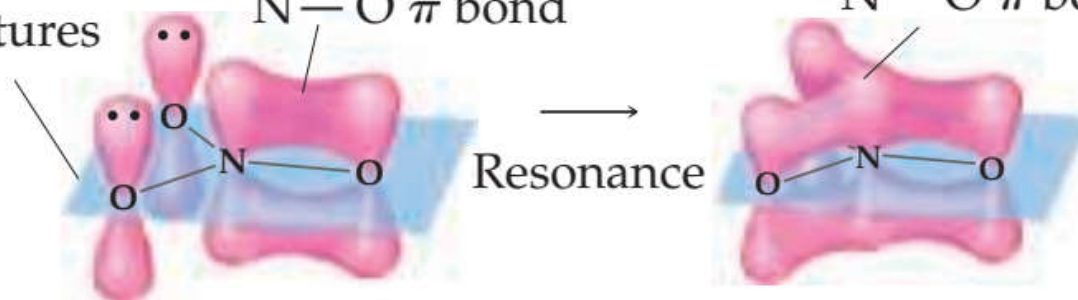




One of three
resonance
structures

Localized
N—O π bond

Delocalized
N—O π bonds



Ressonância, deslocalização π

