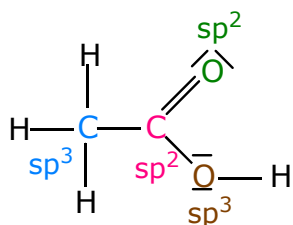
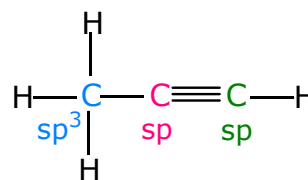
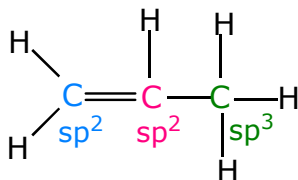


Correction des Travaux dirigés
2011-2012

Exercice n°1

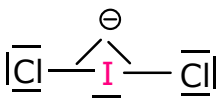
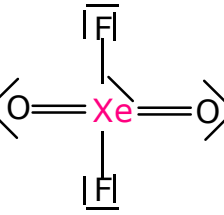
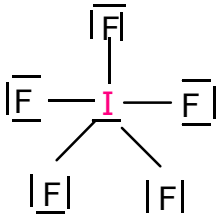
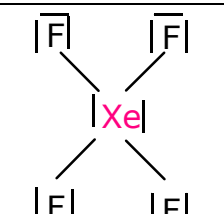
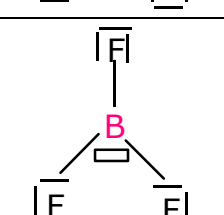


**L'oxygène possède
2 doublets non-liants**



Exercice n°2

Molécule	Structure De Lewis	Hybridation de l'atome central	VSEPR AX _n E _m	Géométrie
HCN	$\text{H}-\text{C}\equiv\text{N} $	sp	AX ₂	Linéaire 180°
SO ₂	$\langle \text{O}=\text{S}=\text{O} \rangle$	sp ²	AX ₂ E ₁	Coudée 120°
CO ₂	$\langle \text{O}=\text{C}=\text{O} \rangle$	sp	AX ₂	Linéaire 180°
SCN ⁻	$^{\ominus} \text{S}-\text{C}\equiv\text{N} $	sp	AX ₂	Linéaire 180°
H ₂ CO	$\begin{array}{c} \text{H} \\ \diagdown \\ \text{C}=\text{O} \\ \diagup \\ \text{H} \end{array}$	sp ²	AX ₃	Triangle plan 120°
NO ₂ ⁺	$\langle \text{O}=\text{N}=\text{O} \rangle$	sp	AX ₂	Linéaire 180°
NO ₃ ⁻	$\begin{array}{c} ^{\ominus} \text{O}-\text{N}=\text{O} \\ \\ \text{O} ^{\ominus} \end{array}$	sp ²	AX ₃	Triangle plan 120°
ClF ₃	$\begin{array}{c} \text{F} \\ \\ \text{Cl} \\ / \quad \backslash \\ \text{F} \quad \text{F} \end{array}$	sp ³ d	AX ₃ E ₂	Molécule en T

ICl_2^-		sp^3d	AX_2E_3	Linéaire 180°
XeO_2F_2		sp^3d	AX_4E_1	Tétraèdre irrégulier
IF_5		sp^3d^2	AX_5E_1	Pyramide à base carrée
XeF_4		sp^3d^2	AX_4E_2	Carrée
BF_3		sp^2	AX_3	Triangle plan 120°