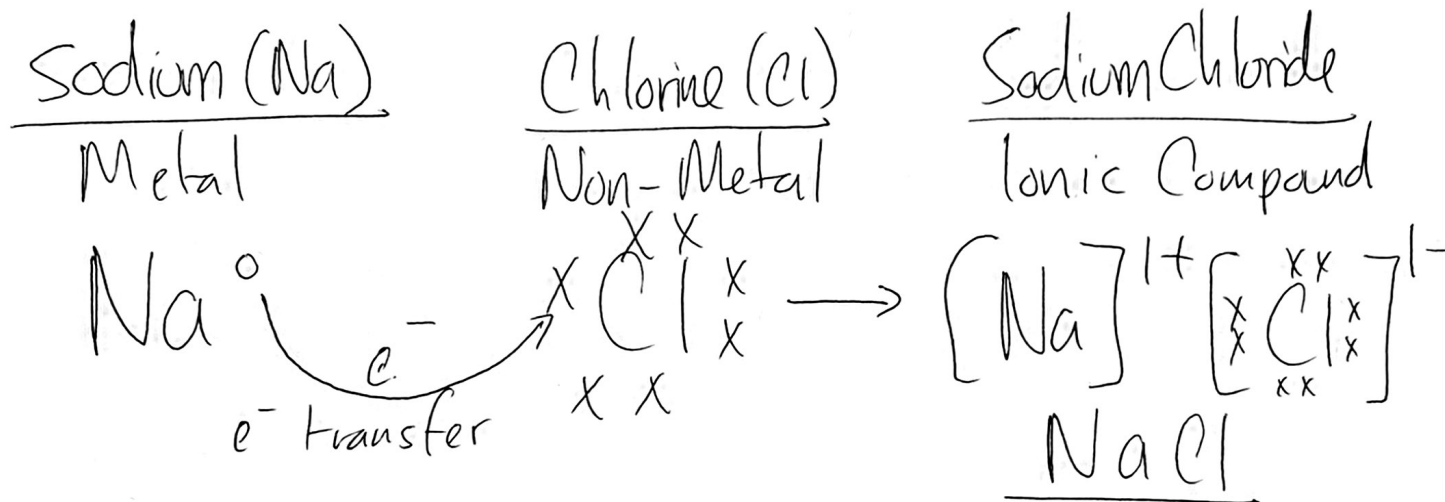
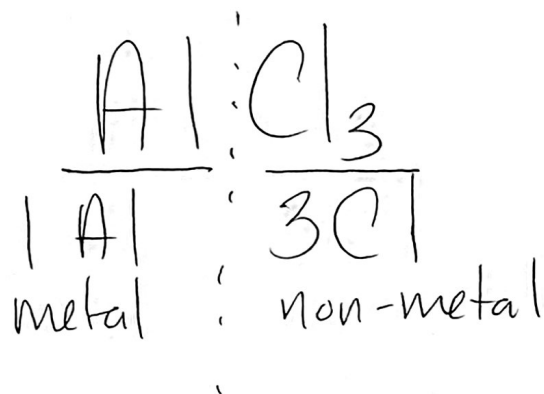
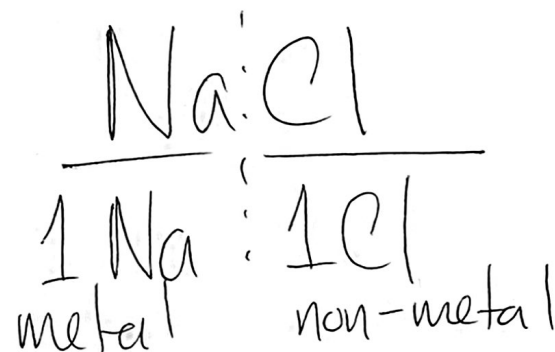
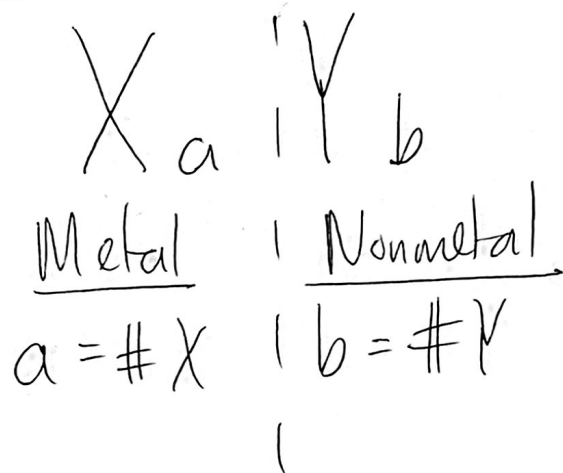


Noteset 4B - In Class Notes

Ionic Bond - Connection between a metal (1A, 2A, Al, trans) and a non-metal (5A-7A, C(4A)) based on the transfer (moving) of electrons (e^-)



Ionic Compound Format



If a or $b = 1$ you do not need to write "1"

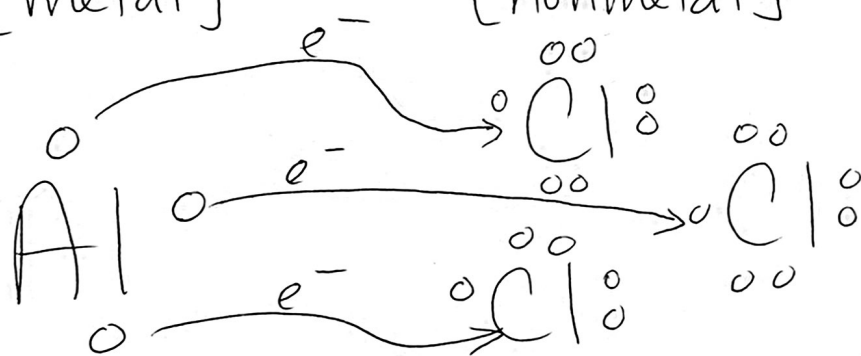
Lewis Dot Structures and Ionic Bonding

A metal (+ ion, lose e^-) transfers e^- to a non-metal (- ion, gain e^-)



metal transfer e^- to non-metal

(+1, lose $1e^-$) (-1, gain $1e^-$)
[metal] [nonmetal]



(+3, lose $3e^-$) (-1, gain $1e^-$)

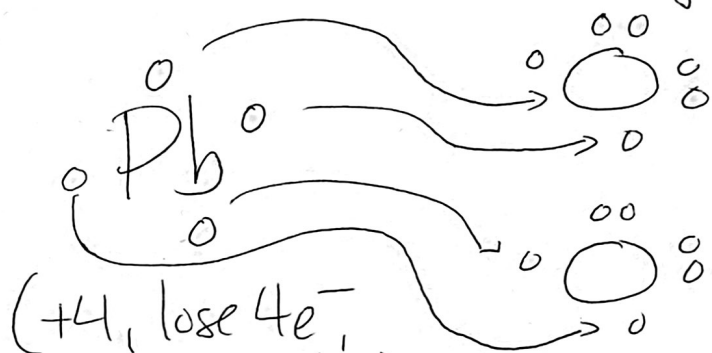
Each Cl takes $1e^-$ from Al

(Cl = -1
Al = +3)



(+2, lose $2e^-$) (-2, gain $2e^-$)

$2e^-$ are transferred between the metal and nonmetal



(+4, lose $4e^-$, transition) (-2, gain $2e^-$)

Pb gives away $4e^-$, $2e^-$ per oxygen