

Cation (+ ion, lose e^-) [1A, 2A, 3A]

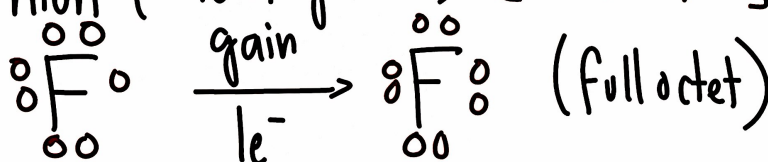


Empty Octet

X

0 val. e^-

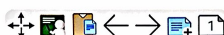
Anion (-ion, gain e^-) [5A, 6A, 7A]



Full Octet

X

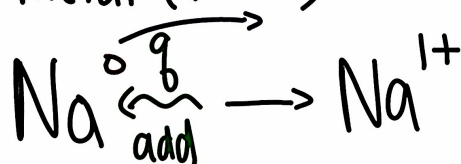
8 val. e^-



Ionization Energy [only 1-3 val e^- can be lost]

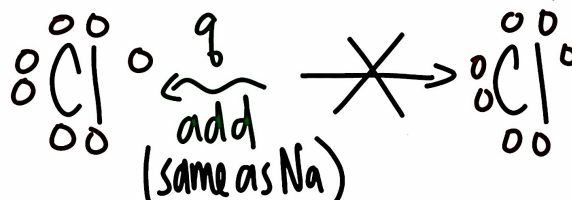
Energy required (q, J or kJ) to remove e^- from atom

Metal (lose e^-)



$e^- - p^+$ interaction breaks

Non-Metal (does not lose e^-)



$e^- - p^+$ interaction does not break (not enough q)

