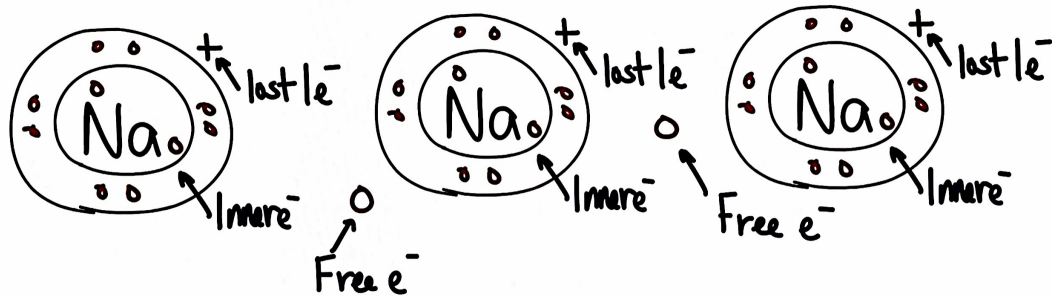


Metallic Bonding (Metal-Metal) Bonding

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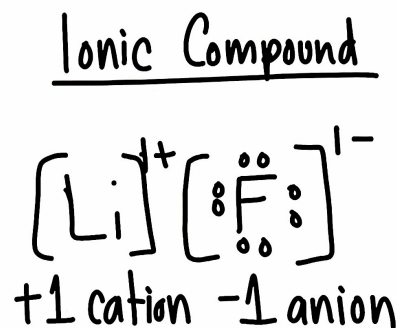
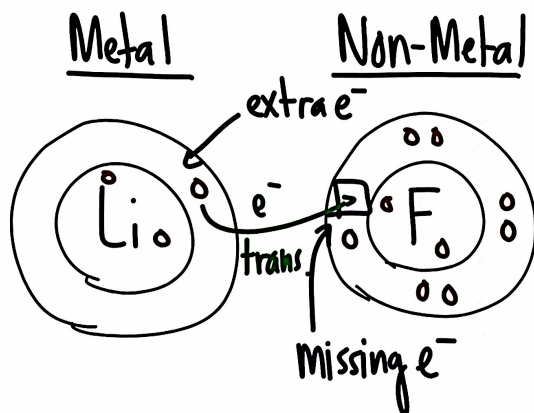


Metal atoms form + ions. Free e^- flow around + metal ions
 ... Free e^- bond metals together



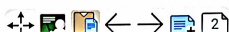
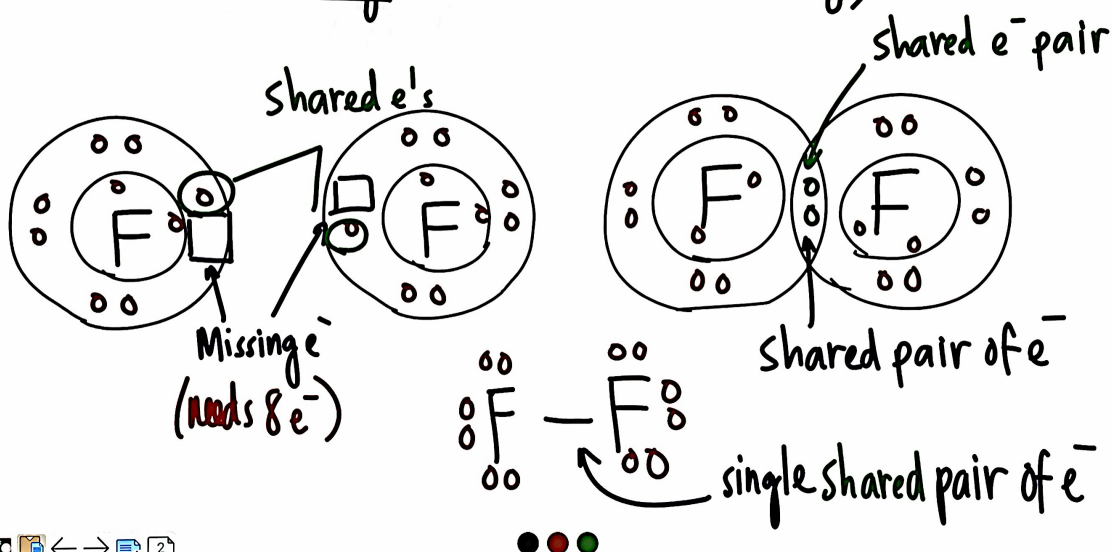
Ionic Bonding (Transfer of e^-)

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Non-Metal Bonding (Covalent Bonding)

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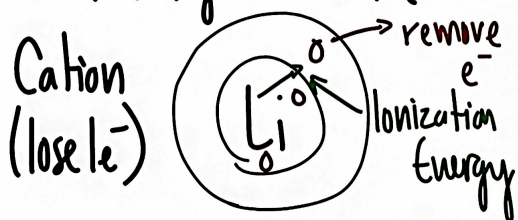


Energy in ion formation (review)

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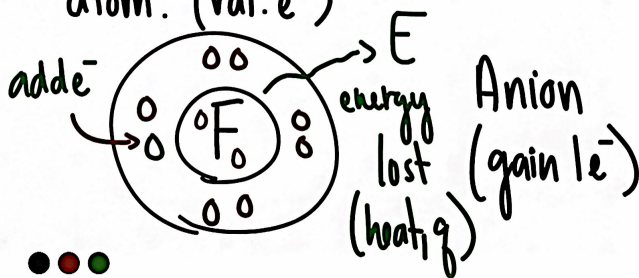
Ionization Energy

Energy Required to remove an e^- from the highest level (val. e^-)



Electron Affinity

Energy released when an e^- is added to outer level of atom. (val. e^-)



Bonding Recap

Metallic Bond

Bond due to e^- cloud (-) forming due to loss of e^- between metals

Ionic Bond

Bond due to transfer of e^- between metal (lose e^-) and non-metal (gain e^-)
[strongest]

Covalent Bond

Bond due to sharing e^- between two non-metals to fulfill the octet rule (8 val. e^-)
[weakest]