Polarity, Formal Charge, and Resonance

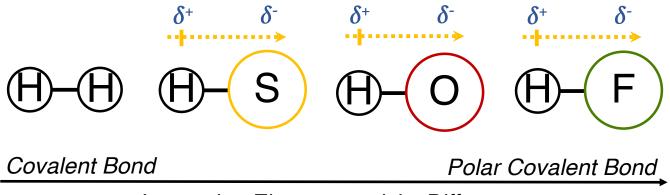
Flash Review

CHEM 371 Dr. Christopher B. Durr

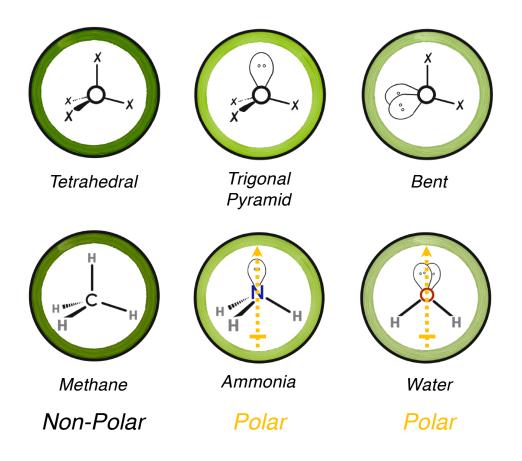


© 2019 by Christopher Durr, Polarity, Formal Charge, and Resonance Flash Review. This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License.

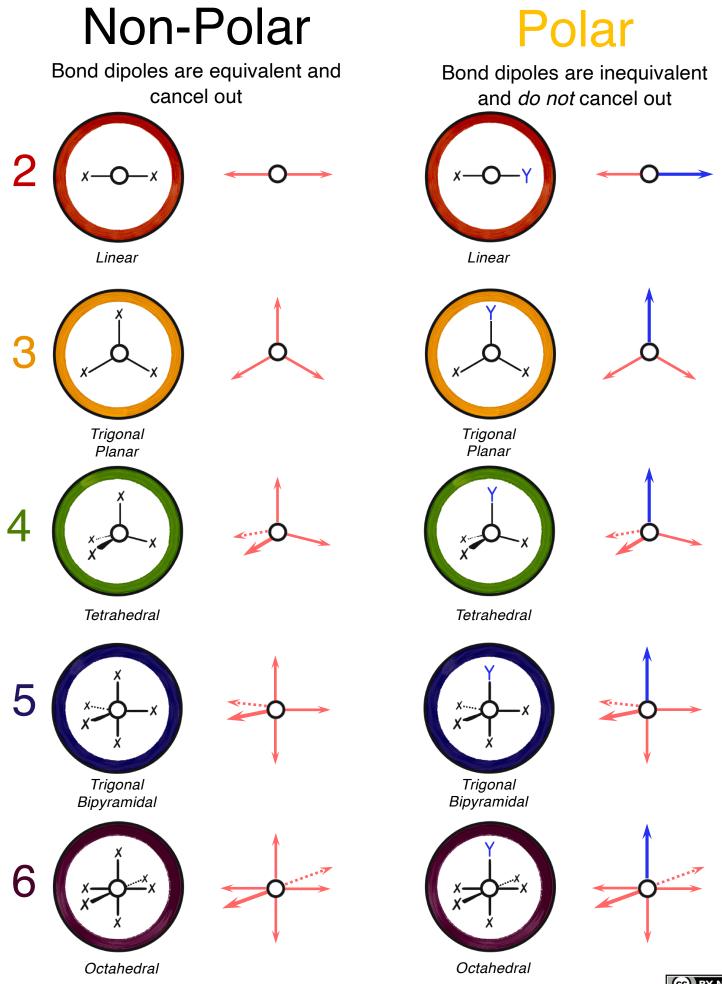




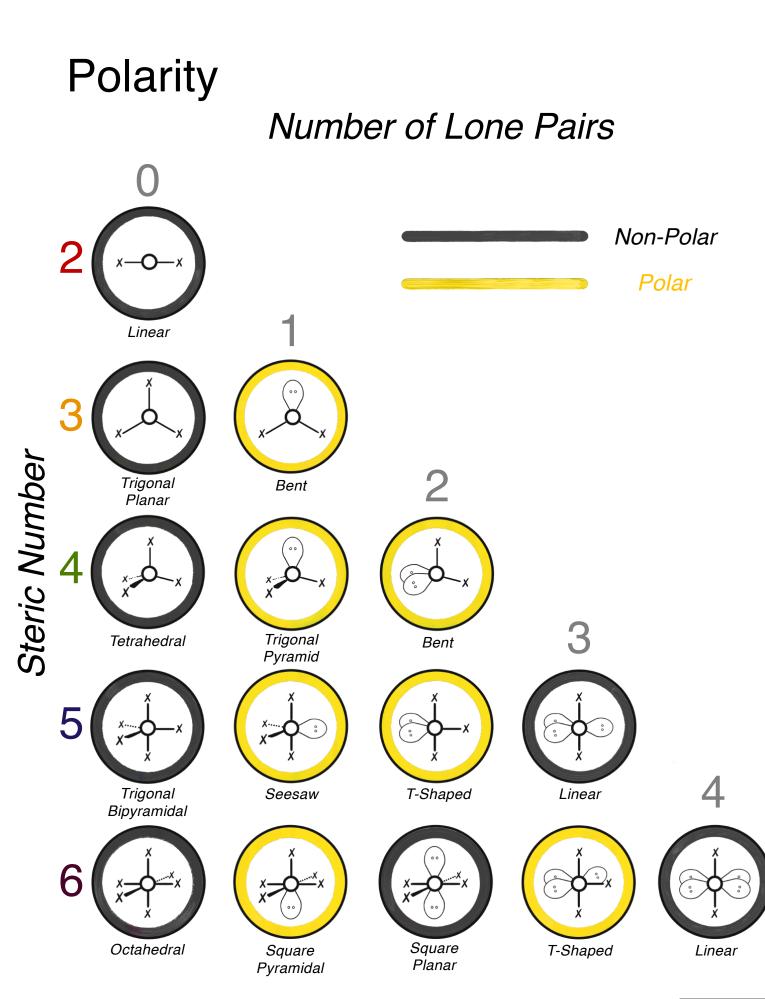
Increasing Electronegativity Difference





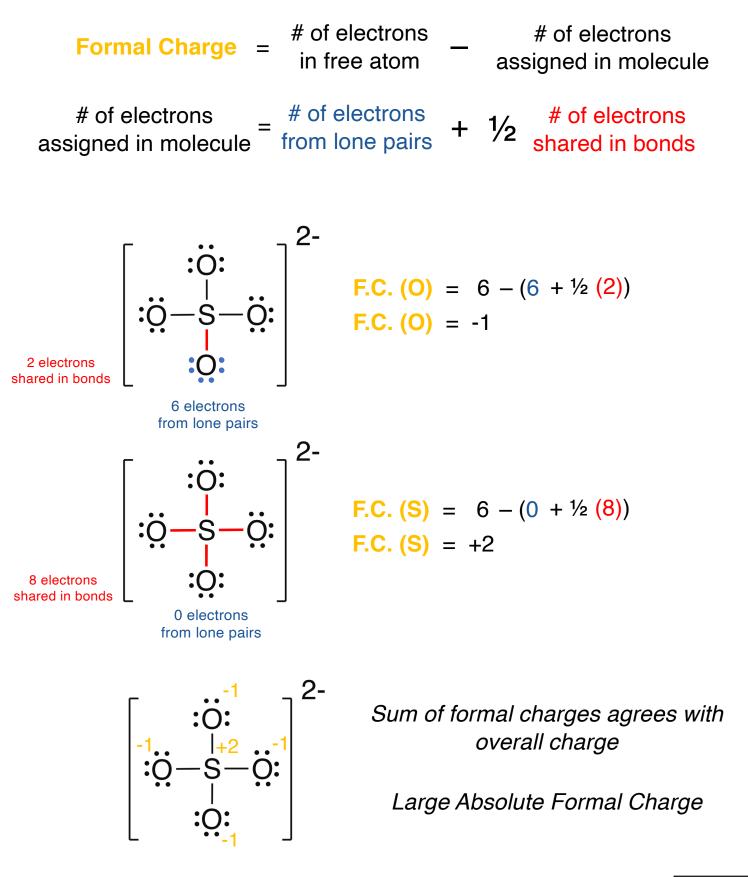


CC BY-NC-SA



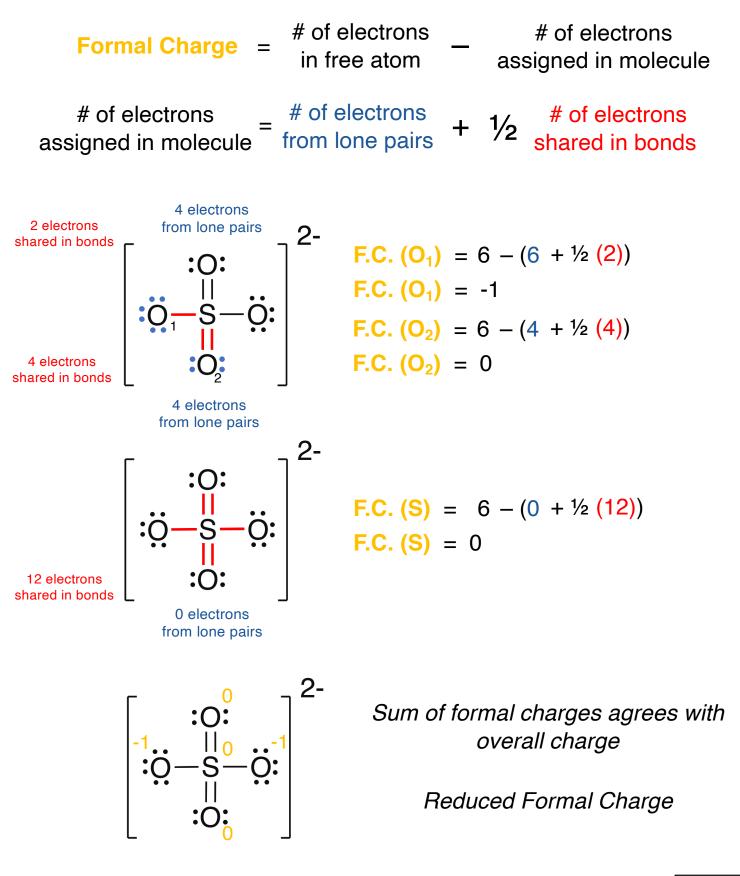
CC BY-NC-SA

Calculating Formal Charge

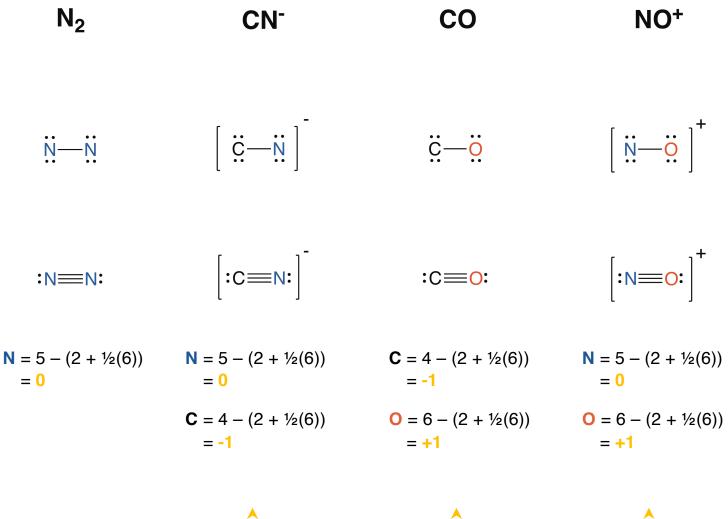


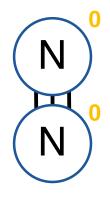


Calculating Formal Charge

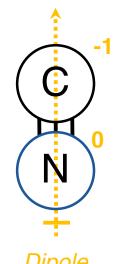


Examples of Formal Charge

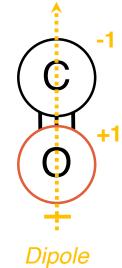




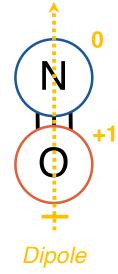
No Net Dipole



Dipole Towards C



Dipole Towards C



Towards N



Resonance

Resonance Hybrids result from two or more Resonance Contributors.

Please note, electrons are *not* shifting back and forth, this is importantly *not* an interconverting equilibrium.

