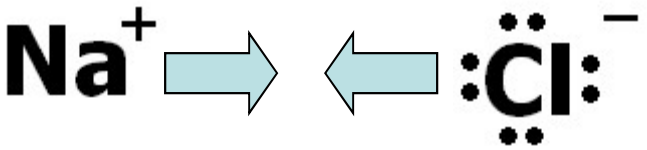
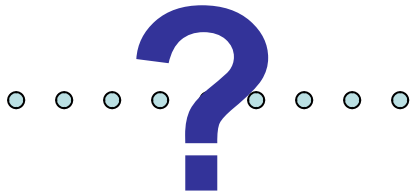
Back to Chemistry: The Spectrum of Bonding

Ionic

...e^- *transfer*

...ions (+/-) are electrostatically attracted.





...in between?

Pure Covalent

...e^- *sharing*

...each nucleus attracted to bonding e^-

Electronegativity

Definition:

Electronegativity (E.N.)

... A measure of how attractive an atom is to nearby bonding electrons.

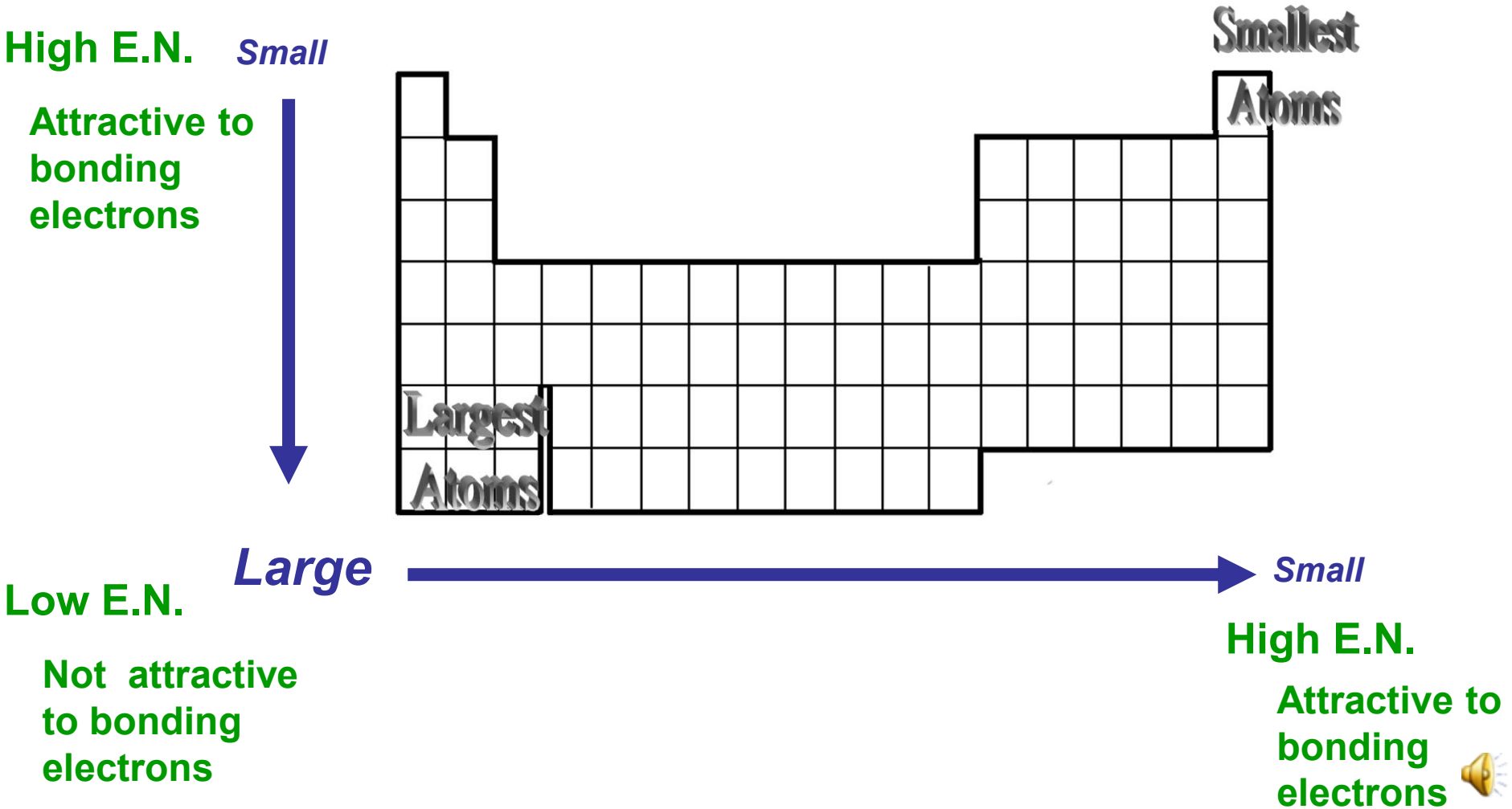
...small atoms are more attractive to bonding electrons.

(...since e^- can get closer to the nucleus of a small atom)

...Large atoms are less attractive to bonding electrons.

(...since e^- cannot get close to the nucleus of a large atom)

Electronegativity and the Periodic Table



Electronegativity and the Periodic Table