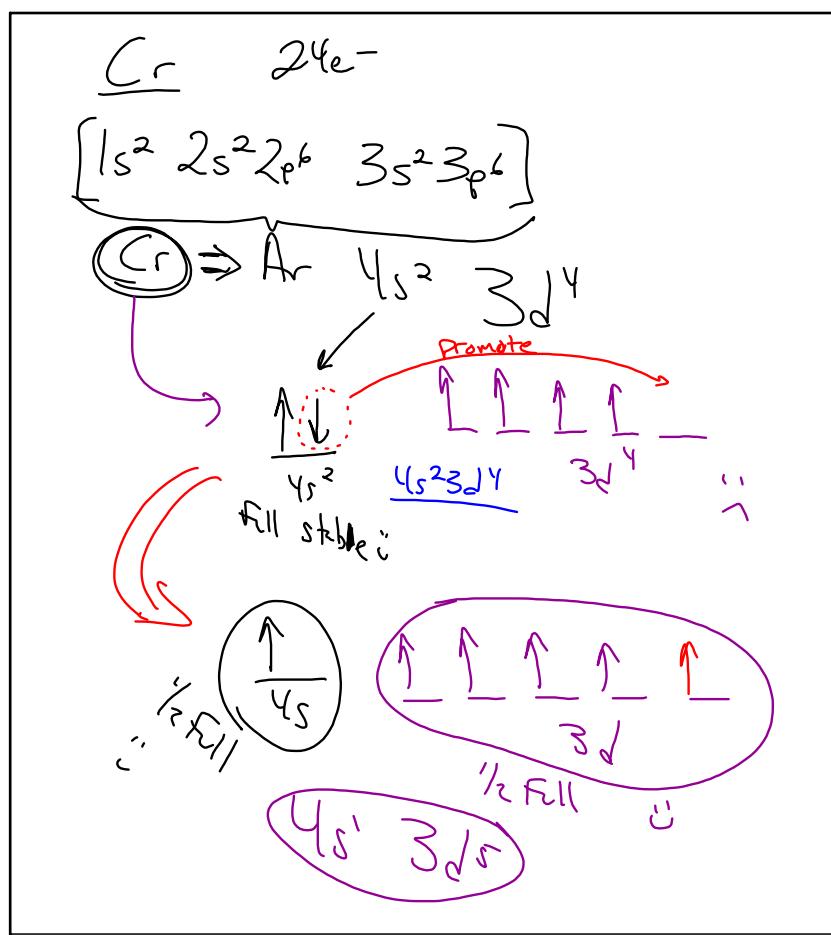
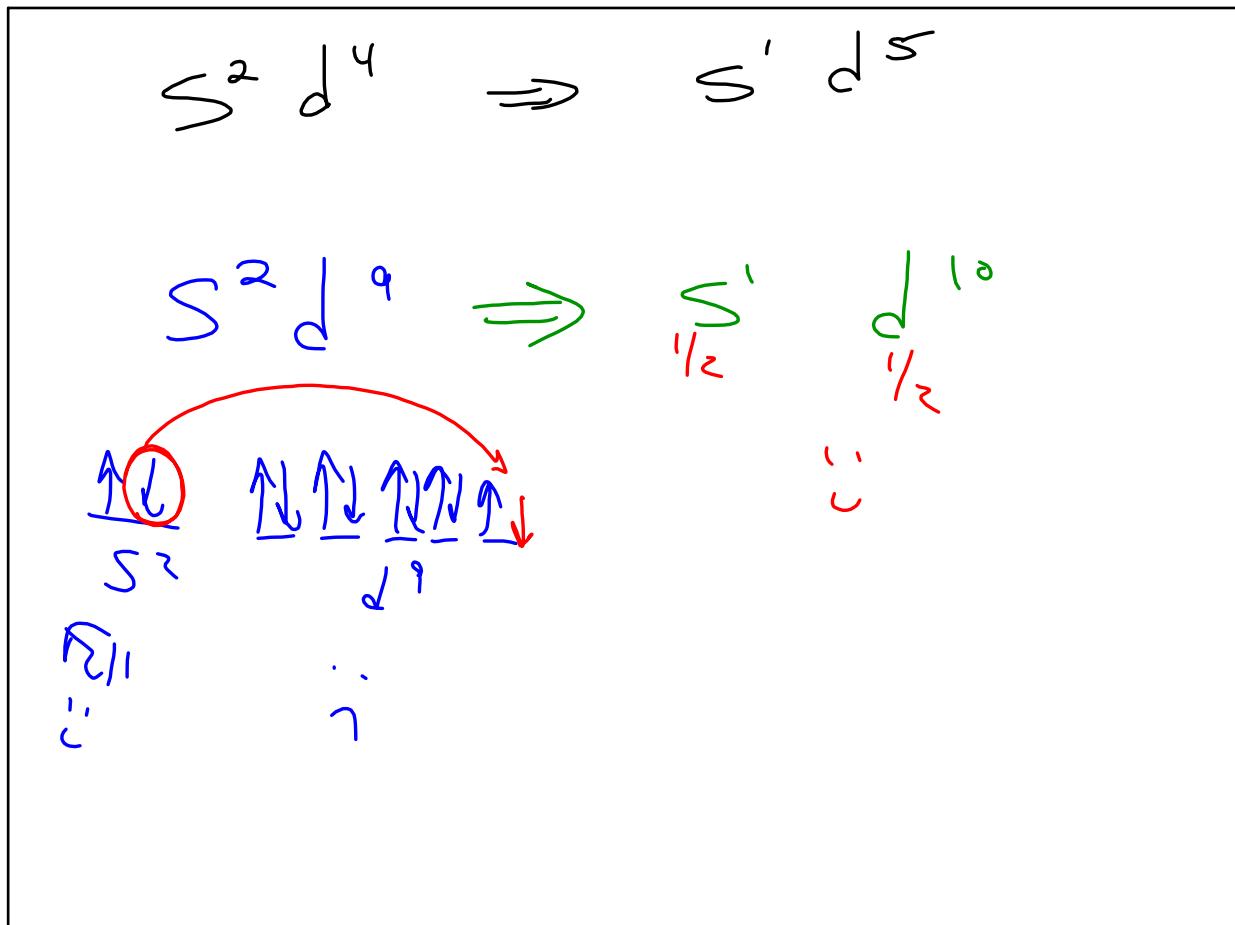


Nov 10-7:19 AM



Nov 10-8:15 AM



Nov 10-8:27 AM

Transition elements d block filling

Chap?

i Weird!

- ① Share e- between S + d to make $\frac{1}{2}$ full sublevels to increase stability
- ② form colorful compounds

Nov 10-8:31 AM

Exam 2 Fall 2020

Chap 5, 6, 7

Thermo

Atomic Theory

Per. dd. Table

Next week

T or R

Double Period

Nov 10 8:36 AM

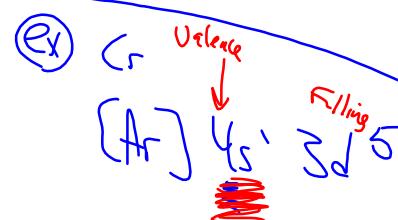
Chap 7 PT.

Periods (horizontal rows \leftrightarrow)

* Each Period STARTS a new P.E.L.

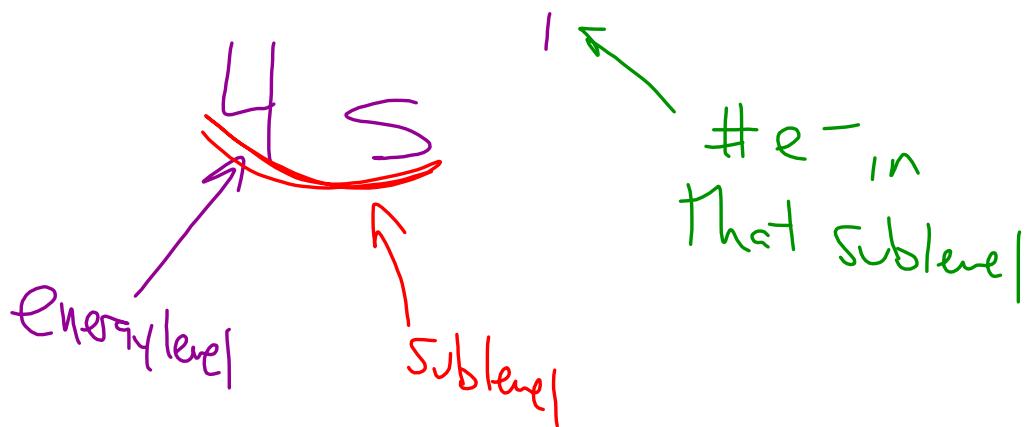
Groups (vertical columns \uparrow)

Each group has similar chemical properties
because ... SAME # of valence e^-



outermost
Energy level

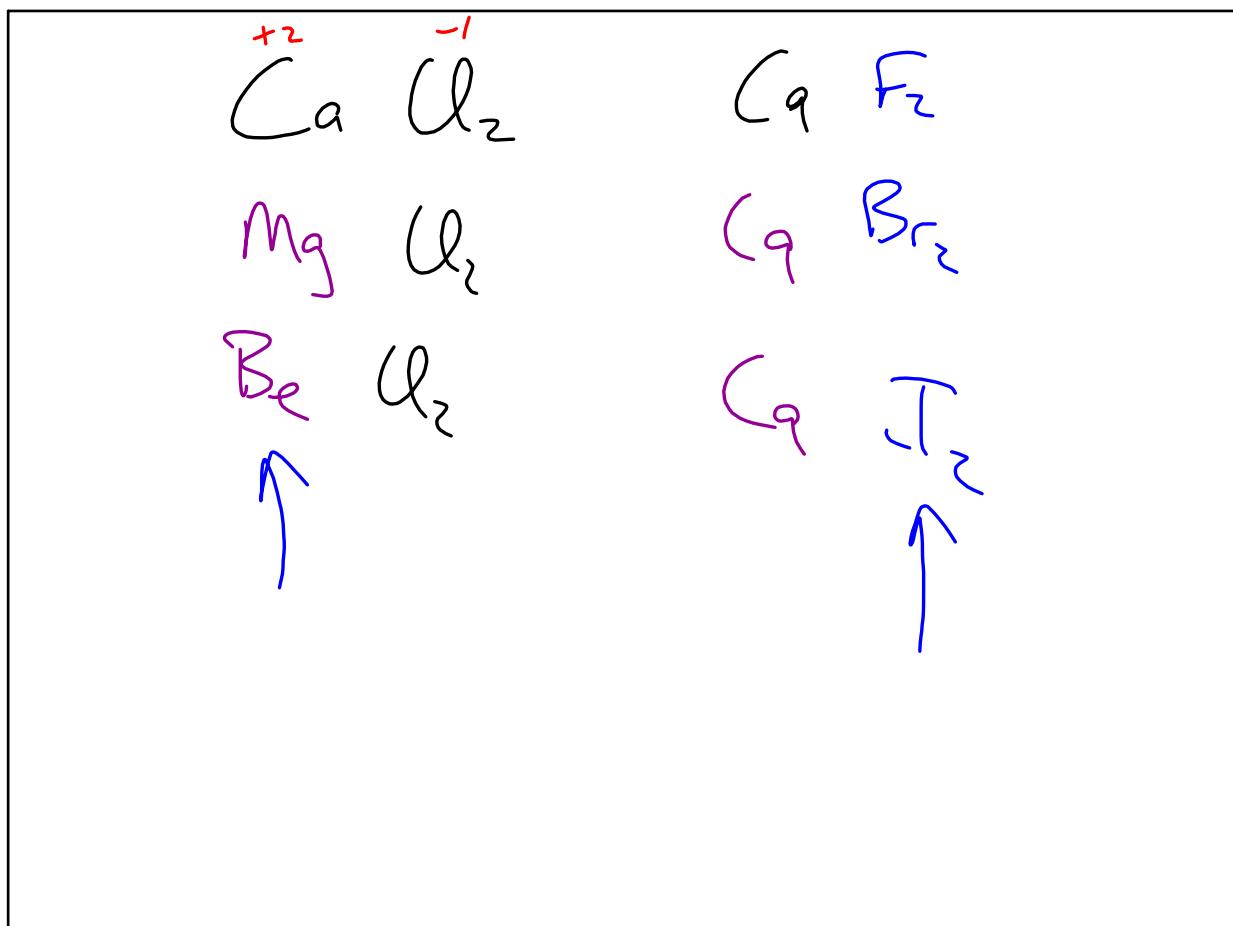
Nov 10 8:38 AM



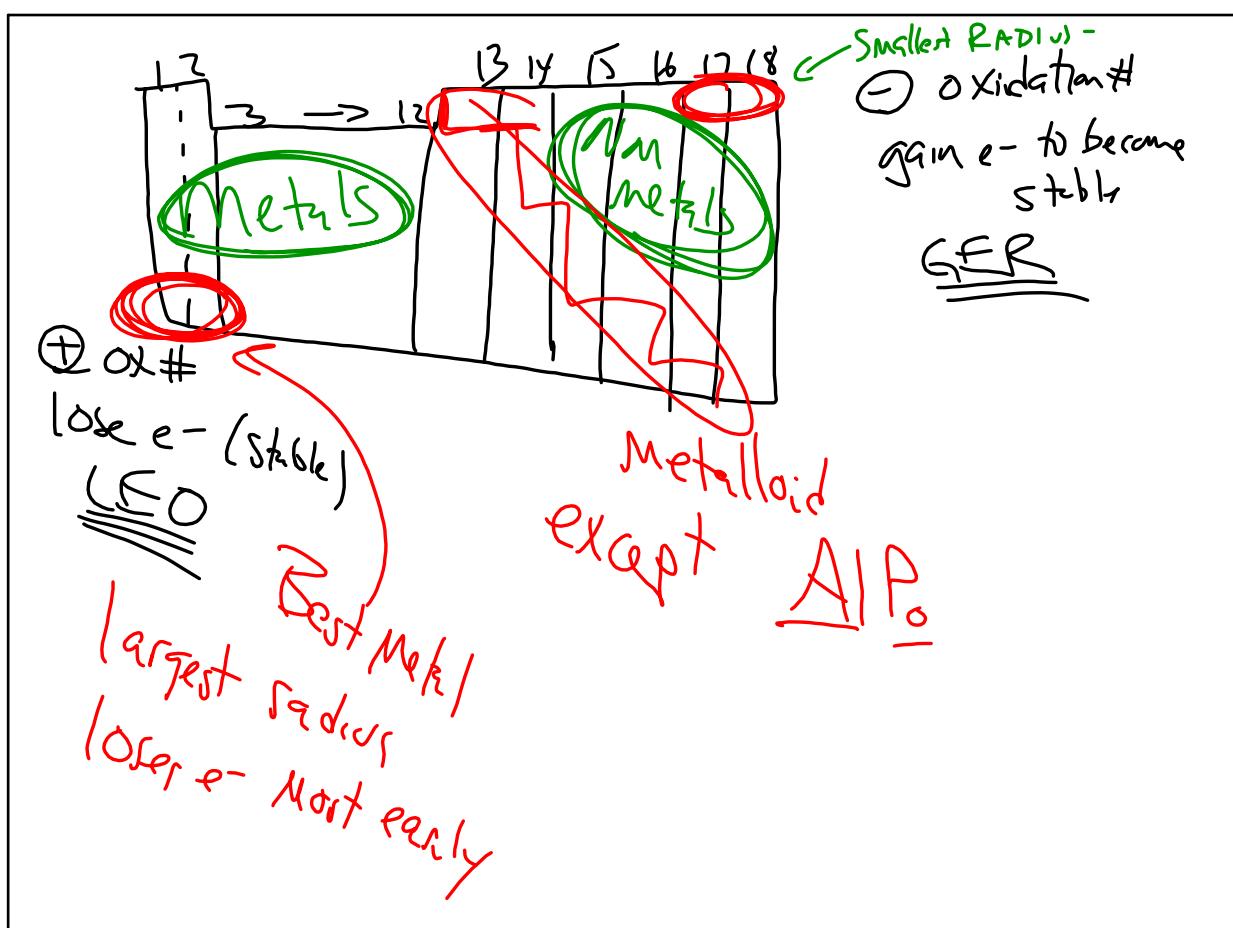
Nov 10-8:55 AM

<u>Group 1</u>	(1 valence e ⁻)
↳ Alkaline Metals	
<u>Group 2</u>	(2 valence e ⁻)
↳ Alkaline Earth metals.	
<u>Groups 3-12</u>	Transition elements.
<u>Group 17</u>	(7 valence e ⁻) → Halogens.
<u>Group 18</u>	(8 valence e ⁻ - STABLE) → Noble gases.
<u>Group 16</u> -	(6 valence e ⁻) Oxygen family → (halogens)

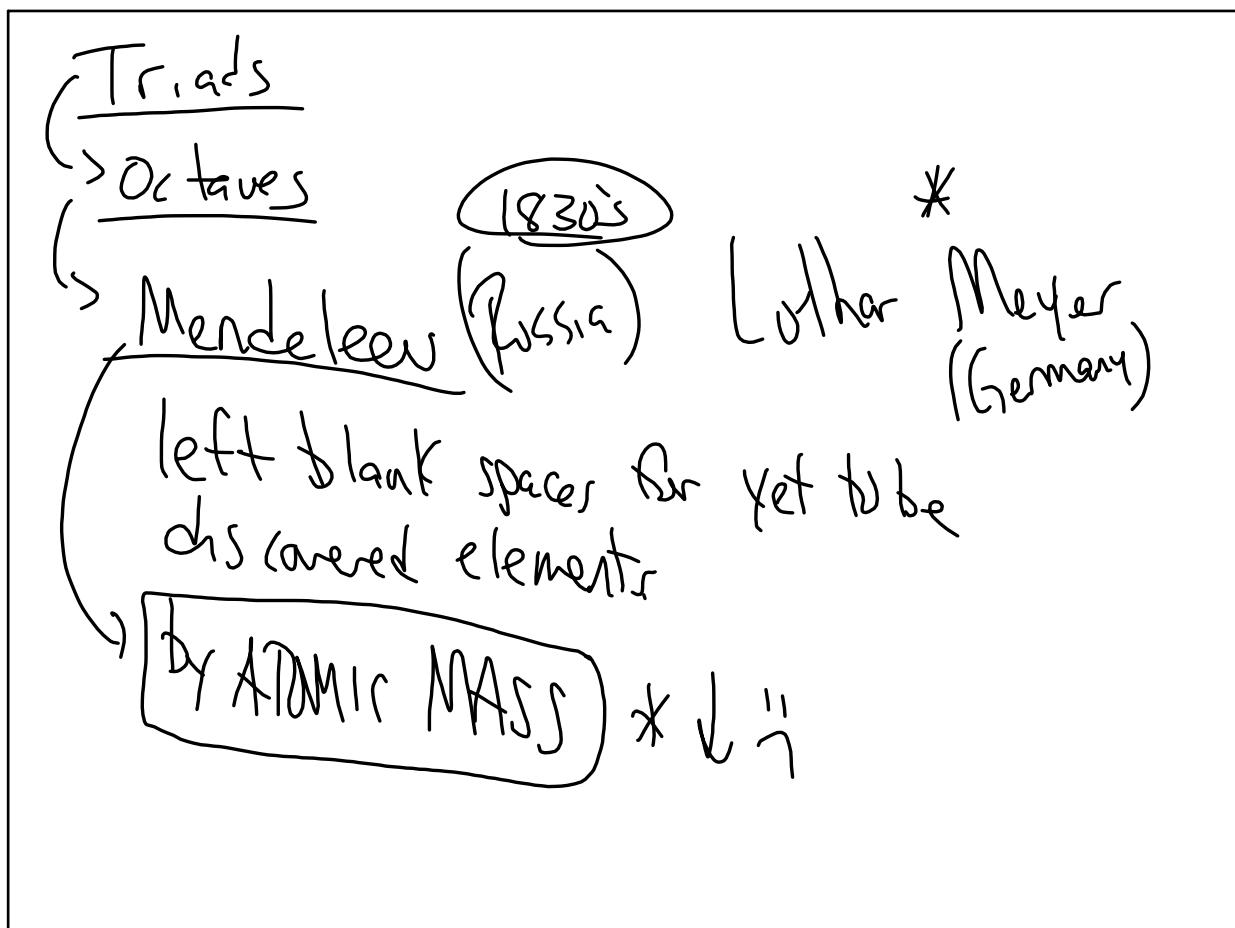
Nov 10-8:56 AM



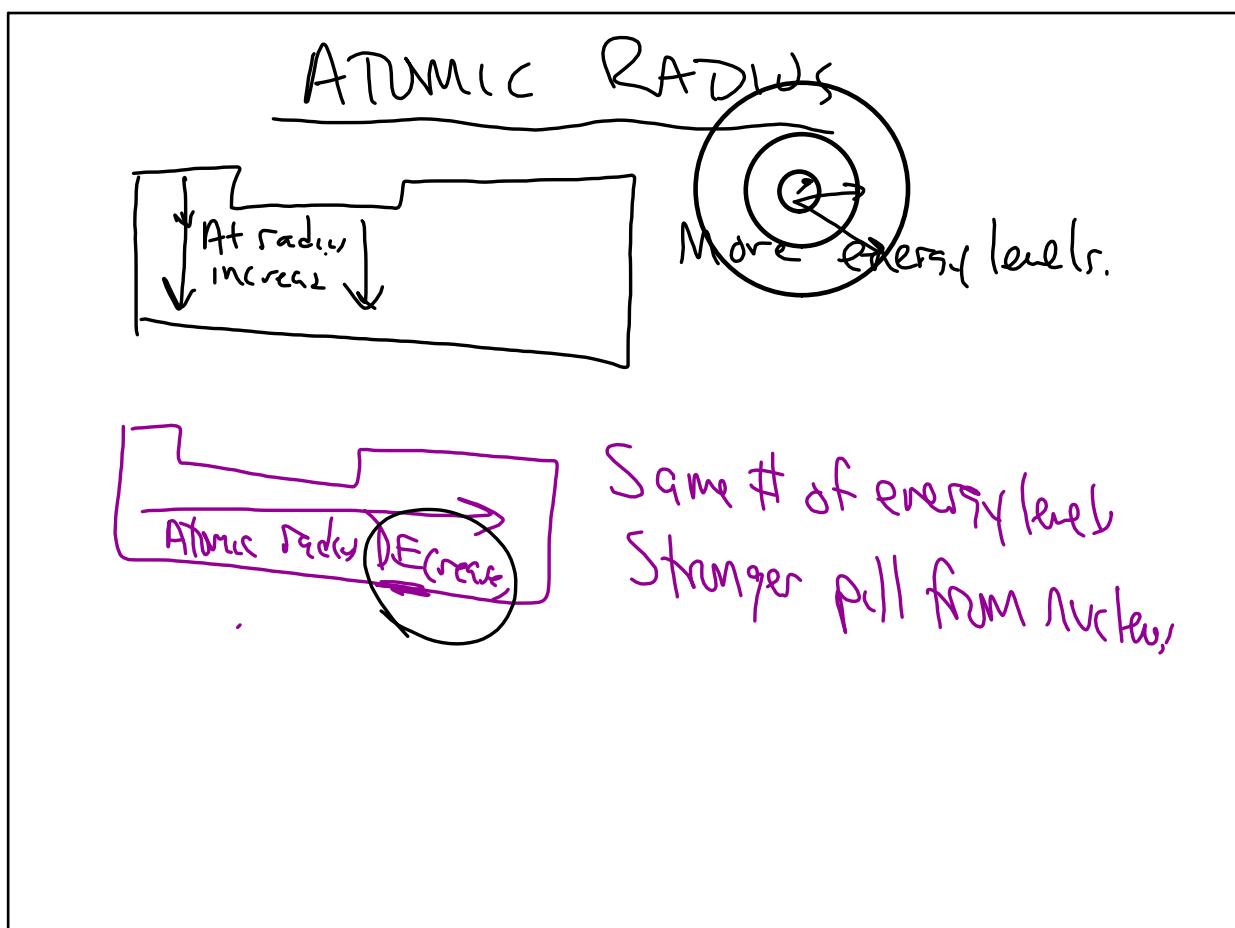
Nov 10-9:00 AM



Nov 10-9:01 AM

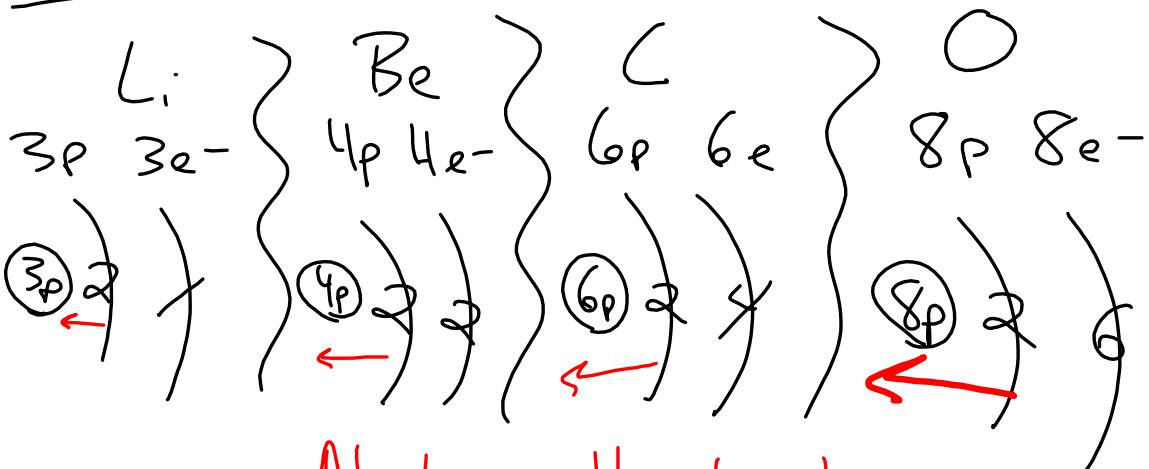


Nov 10-9:06 AM



Nov 10-9:14 AM

Per 2 elements \rightarrow NEUTRAL $\#p = \#e^-$



Nuclear pull gets stronger
radius decreases L \rightarrow R

Nov 10-9:16 AM

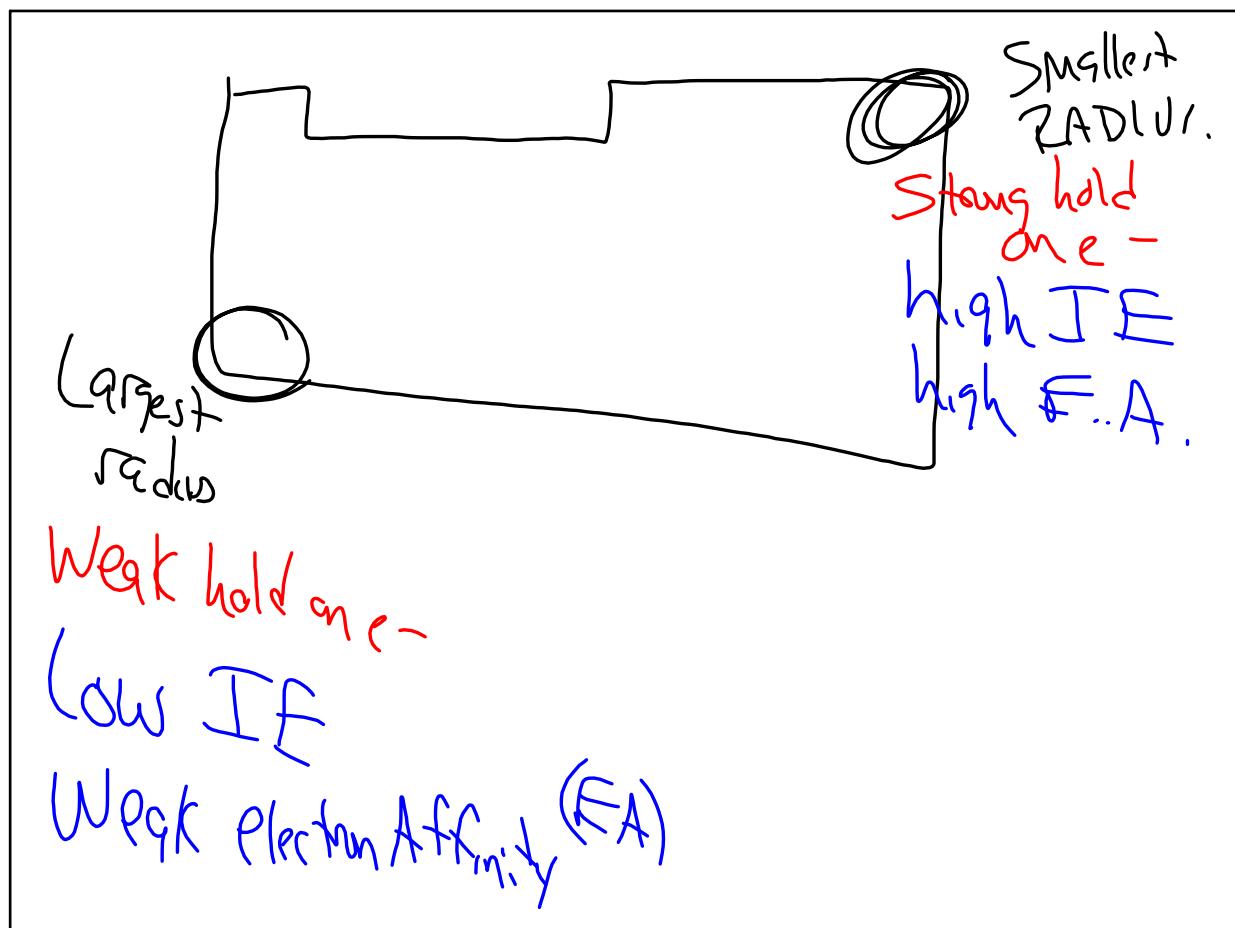
Ionization Energy

KJ

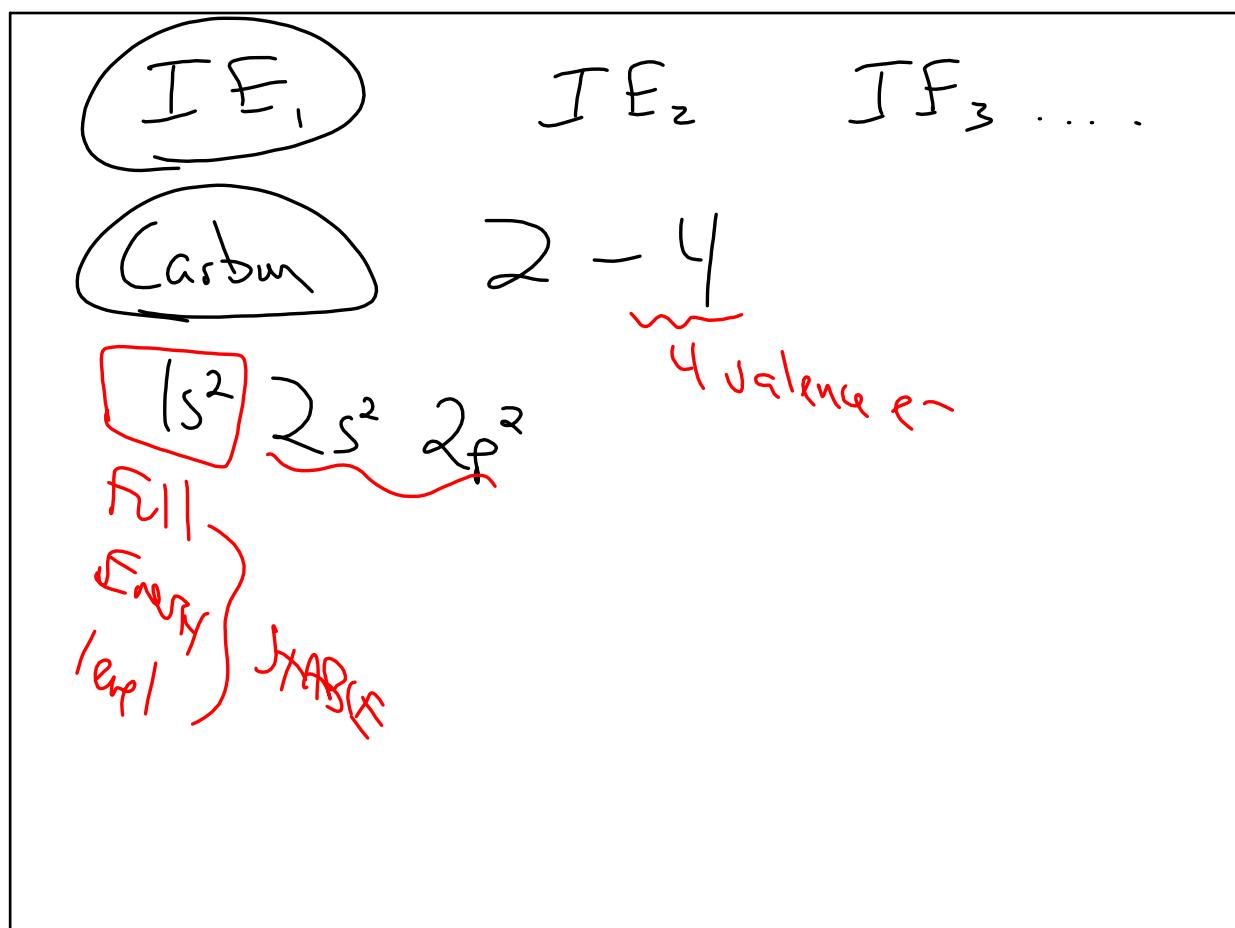
KJ/mole.

The amount of energy needed to
lose the most loosely held
Valence e^-

Nov 10-9:20 AM



Nov 10-9:23 AM



Nov 10-9:25 AM

HW
7/23, 25, 28
Ions \rightarrow THINK

Nov 10-9:29 AM