Chemistry		Name
Periodicity II		Date
P HARD TO STEAL FROM		
1. Moving right and up toward Helium the ionization energy		
2. Moving left and d	lown toward Francium	the ionization energy DECREASES.
3. In each of the following pairs which has a greater ionization energy?		
a)Clor Sn	b)Li)or K	c) Oor Se TO STEAL ELECTRON FROM ATOM
d) (b) or Au	e) Allor Ga	f)He or F
d) Phor Au e) Alor Ga f) He or F 4. Moving right and up toward Fluorine the electron affinity		
5. Moving left and down toward Francium the electron affinity DECREASES.		
6. Why do the electron affinities increase moving right and up toward Fluorine? MOVING IN THIS DIRECTION, ATOMS WANT TO GAIN ELECTRONS. ATOMS ALSO GET SMALLER, IN THIS DIRECTION, SO IT IS EASTER FOR THE TO GAIN ELECTRONS AS THEIR SHELL THE SHELL STATE OF THE TO GAIN ELECTRONS AS THEIR SHELL.		
TS FAMER FOR THE TO GATS ELECTRONS AS THE TREE SHELL. 7. In each of the following pairs which has a greater electron affinity? The parties of the following pairs which has a greater electron affinity?		
	b) Mg or Na	
d) K or Ca	e)For N	d) Br or CD
8. In each of the following pairs which has a larger radius?		
a) V or Nb	b) Cl or Br	c) Rn or Fr
d) ©sor At	e) Cs ⁺ or At	f) Co'or P
9. In each of the following pairs which has the greatest reactivity.		
a) Al or Ca	b) Li or Na	c)Cs)or Pd
d) Ca or K	e)For Br	f) C or Br

10. In each of the following groups which has the greatest electronegativity difference.

1. 6 = 2.1 4.0 32 0.7 3.5 25 1.0

a) Cr vs. P b) F vs. Fr c) O vs. Li

or

6.7

Fr vs. Br

2.8

Cl vs. Na

or

S vs. Zn

2.5 1.6