Name_		Date	Hour			
Chemistry Guided Reading		ling 6-2 and 6-	3			
Section	ı 6-2 (pgs 182-185)					
	What are valence electrons?					
1.	what are valence electrons:					
2.	List one of the most importa	nt relationships in che	mistry.			
3.	Complete the following chart	t using figure 7				
	Group Number	Number of	Group Number	Number of		
	4	Valence electrons	15	Valence electrons	-	
	1		15		=	
	2		16		_	
	13		17		_	
	14		18 (except helium)			
			,		1	
4.	Which groups or sections bel	long to each of the "bi	ocks" on the P. 1?			
Section	ı 6-3					
1.	Why can't we determine the	actual size of the elec	tron cloud? How do	o we determine the size	of an	
	atom?					
2.	Examine figure 11 and 12, how does the size of an atom change as we move down a group? How does					
	the size of the atom change a	as we move across a p	eriod?			
3.	Which atom would have the	largest atomic radius,	magnesium (Mg), si	ilicon (Si) or sulfur (S)?		

4.	. Determine which element in each pair would be the largest (have the biggest atomic radius)		
	a. Element in period 2 group 1, or the element in period 3 group 18		
	b. Element in period 3 group 18, or the element in period 5 group 2		
	c. Element in period 4, group 18, or the element in period 2 group 16		
5.	What is an ion? What happens to an atom's size as it loses electrons? When they gain electrons?		
6.	Define ionization energy?		
7.	How can we think of ionization energy in simpler terms? What does it mean when an element has a high ionization energy? Low ionization energy?		
8.	Examine figure 17, what are the trends for ionization energy as we move down a group and across a period?		
9.	What does the octet rule tell us?		
10.	Which elements tend to form positive ions, which elements tend to form negative ions?		
11.	Define electronegativity.		
12.	Examine figure 18. Describe the trends in electronegativity that occur as we move down a group and across a period		