Chemistry 2 Review

1. Where in the periodic table are the nonmetals located? Name 3 nonmetals									
2. Where in the	e periodic table a	re the metals loca	ted? Name 3 metals.						
3. How do you figure out how many valence electrons an atom has?									
4. Do metals gain or lose electrons when bonding?									
5. Do nonmetals gain or lose electrons when bonding?									
6. What kind of bond forms when atoms steal/transfer electrons?									
7. What kind of bond forms when atoms share electrons?									
8. What is a cation?									
9. What is an anion?									
10. Name 3 atoms that will become cations when bonding.									
11. Name 3 atoms that will become anions when bonding.									
12. Complete t	he chart for each	element.							
Element	# of Protons	# of Electrons	# of Valence Electrons	# of Electrons to Fill Outer Shell					
Carbon									
Chlorine									
Hydrogen									
Aluminum									
Oxygen									
Sulfur									

13. Draw the Lewis Dot Structures for each of the atoms below. Then show the Lewis Dot Structure for these covalent bonds. (Hint: The number of atoms for the compound is not given. There may be more than one type of atom in the compound.)

a. Hydrogen + Hydrogen

Nitrogen

b. Hydrog	gen + Oxygen				
c. Chlorir	ne + Oxygen				
d. Oxygei	n + Oxygen				
e. Carbon	ı + Oxygen				
14. Complete th	e chart for each ele	ment.			
•	Element	# of Protons	# of Electrons	# of Valence	
	Sodium			Electrons	
	Calcium				
	Iodine				
	Fluorine				
	Magnesium				
	Oxygen				
	Potassium				
these ionic bonds one atom on the		per of atoms for the		n show the Lewis Dot Structure of given. There may be m	
b. Magnes	sium + Iodine				
c. Sodium	+ Chlorine				
d. Calciun	n + Chlorine				
e. Alumin	um + Chlorine				