Ionic Bonds

 Ionic bonds form 	between	and	·	
In naming simple ionic compounds, the is always first, the			ays first, the	
sec	ond (e.g., sodium chl	oride).		
lonic compounds dissolve easily in and other polar solvents.				
• In solution, ionic	compounds easily		•	
lonic compounds tend to form with melting				
temperatures.				
Naming Ionic Com	pounds			
 Write the first and the second 				
Use to indicate the number of atoms of each type				
present in the compound				
 No prefixe 	es			
Change the syllable of the to say				
Directions: Comple	te the chart below.			
Element	Number of Valence Electrons	# of electrons gained or lost to fill outer energy level	Charge (Oxidation Number)	
Sodium				
Chlorine				
Beryllium	4			
Fluorine				
Lithium				
Oxygen				
Potassium				
Magnesium				
Phosphorous				
Aluminum			1	

Directions: For each of the following elements, draw Lewis dot diagrams and arrows to show the transfer of electrons. Then, write the chemical formula and name for the compound.

1)Sodium + Chlorine	2) Potassium + Iodine	
Formula:	Formula:	
Name:	Name:	
3) Magnesium + Oxygen	4) Calcium + Sulfur	
Formula:	Formula:	
Name:	Name:	
5) Calcium + Chlorine	6) Magnesium + Fluorine	
Formula:	Formula:	
Name:	Name:	

7) Potassium + Bromine	8) Potassium + Oxygen	
Formula:	Formula:	
Name:	Name:	
9) Sodium + Oxygen	10) Aluminum + Chlorine	
Formula:	Formula	
· ·	Formula:	
Name:	Name:	
11) Calcium + Fluorine	12) Magnesium + Iodine	
Formula:	Formula:	
Name:	Name:	