

Name _____ Period _____

CP Chemistry of the Earth

Assignment 4E – Basic Ionic Bonding (*Part 2*)

20 Points

The following is a chart showing the group and valance electrons w/ Lewis Dot Structures

Group Number	1A 1	2A 2	1B – 10B	3A 13	4A 14	5A 15	6A 16	7A 17	8A 18
Valance Electrons (e ⁻)	1	2	2	3	4	5	6	7	8
Ion Charge	+1	+2	Var.	+3	+4	-3	-2	-1	0

*Complete the following table for the basic ionic compounds.*Ionic Compound = X_aY_b X = Metal, Y = Non-Metal, a = Cation (+) Charge, b = Anion (-) Charge

Metal	+__	Non-Metal	-__	# X	+__	+	# Y	-__	= 0	X	a	B	y
Li		N				+			= 0	Li		N	
Cr ³⁺		Br				+			= 0	Cr		Br	
Mg		N				+			= 0	Mg		N	
Ni ²⁺		P				+			= 0	Ni		P	
Zn ¹⁺		Se				+			= 0	Zn		Se	
Mg		S				+			= 0	Mg		S	
Fe ²⁺		O				+			= 0	Fe		O	
Pb ⁴⁺		Se				+			= 0	Pb		Se	
W ⁶⁺		N				+			= 0	W		N	
Al		P				+			= 0	Al		P	