

Name _____ Period _____

CP Chemistry of the Earth

Assignment 4H – Atomic Ion Nomenclature Review

20 Points

Define the following terms based on the ion review

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
Lose/Gain e ⁻	Lose 1	Lose 2	Var.	Lose 3	Lose 4	Gain 3	Gain 2	Gain 1	Gain 0

Complete the chart below using the attached ion data sheet

Ion	Ion Name*	Ion Charge**	Cation/Anion	Binary/Poly Ion	Lose/Gain e ⁻
Na ¹⁺					
Ba ²⁺					
N ³⁻					
Cl ¹⁻					
NO ₃ ¹⁻					
CO ₃ ²⁻					
BrO ₃ ¹⁻					
CrO ₄ ²⁻					

*See Ion Chart **Charge = Charge on Ion Given

Cation = + ion, Anion = - ion Binary = X¹⁺ (-ide ion), Polyatomic = BrO₃¹⁻ (-ate ion, -ite ion)