Name	Period
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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⁺	Sodium lon	+1	Cation	Binary	Lose le-	
	Ba ²⁺				U		
	N ³⁻						
	Cl1-						
	NO ₃ ¹ -						
_	<u>CO</u> 3 ²⁻	<u>Carbonate</u> on	-2	Anion	Polyatomic	Gain Ze	
	BrO ₃ ¹⁻				V		
	CrO ₄ ²⁻						

^{*}See Ion Chart **Charge = Charge on Ion Given

Cation = + ion, Anion = - ion Binary = X^{1+} (-ide ion), Polyatomic = BrO_3^{1-} (-ate ion, -ite ion)