AT HT	ramania a				Name:					
AT THE O	Formulas			Class/Period: Chemistry						
Decades of College Dreams		Date:	Date:							
Essential Question: How are ionic compounds (salts) named?										
	`									
Questions:	Notes:									
How is the chai	rae	Ion Charges on Main Group Elements								
on an ion		1A +	2A 3A	4A 5A	6A 7	A 8A -				
determined?		1 1+		4+		2				
		H ⁺	2+ 3+	(or 4-) 3-	2- 1-					
		3 Li +	$ \begin{array}{c c} 4 & 5 \\ Be^{2+} & B^{3+} \end{array} $	C ⁴⁺ N ³⁻	$- \begin{vmatrix} 8 \\ O^2 - \end{vmatrix} = \frac{9}{F}$					
			12	14 15	16 1					
			Mg ²⁺ Al ³⁺							
		19 K +	Ca^{2+} Ga^{3+}	32 33 As ³	$- \frac{34}{\text{Se}^{2-}} \frac{3!}{\text{Br}}$					
	Rule of Zero Charge:									
						2				
	1+ 1- 2+ 2- 3+				3-					
Na CI		Ca	(Ca) (O			Ga As				
	Sodium chloride	Calciu	m oxide	oxide Gallium arsenide						
How do you get										
zero charge if										
atoms have										
different charg	les?	Some More Complex Ionic Compounds								
		Compound	Metal	Cations	Nonmetal	Anions				
		MgCl ₂	Mg	Mg ²⁺ Na ⁺ Na ⁺	Cl	Cl ⁻ Cl ⁻				
	Each chlorine atom	Na ₂ O Al ₂ O ₃	Na Al	Al ³⁺ Al ³⁺	0	O^2 O^{2-} O^{2-} O^{2-}				
Magnesium gives u two electrons to form Mg ²⁺ .			111	1 1		1				
				re equal and opposit · 2 - 2 = 0. The to						

What are some	•				
rules you should					
follow when					
predicting the	•				
formula for ionic					
compounds?					
How can the	Magnesium (Mg) and nitrogen (N)				
Criss-Cross Method					
be used to predict					
formulas for ionic					
compounds?	Sodium (Na) and chlorine (Cl)				
		Compo	<u> </u>		
		<u>NaCl</u>		sodium chloride	
How are ionic	•	MgF ₂	magnesium		
compounds named?				chloride	
		Li ₂ S		lithium sulfide	
	•	Al ₂ O ₃		aluminum oxide	
		GaP		gallium phosphide	
How are ionic				рнозрі	lide
compounds named					
if an ion with		Compound	Cation	Anion	
multiple charges is		FeO	Fe ²⁺	O ²⁻	iron(II) oxide
present?			_ a.	••	iron(III)
		Fe ₂ O ₃	Fe ³⁺	O ²⁻	oxide
Summary:					