<u>Unit 4: Ch 8 – Nomenclature: Ionic Compounds with Polyatomic Ions</u>

POLYATOMIC IONS:

>	DEFIN	<u>ITION</u> –						
	0	Ex)						
		•		atom ;		atoms		
			•	charge of				
	0			break apart in nomenclature!! (Special lons)				
		•	Keep as		in nomenclature.			
NAMII	NG SYS	TEM:						
>			_ =	oxygen than _				
	0	Ex)						
>			_ = Most	ion				
	0	Ex)						
>			_=	oxygen than _				
	0	Ex)						
>			_ =	oxygen than _				
	0	Ex)						
>	PRACT	TICE EXA	AMPLES:					
	0	Perchl	orate =	>	prefix >	suffix		
	0	Chlora	te =					
	0	Chlorit	te =					
	0	Нурос	hlorite =	>	prefix ->	suffix		

NOMENCLATURE RULES:									
>	1. Apply	rules for	compounds.						
	0								
>	2. Use		:						
	0								
	 Applies to transition metals and special cases 								
	0	charge of <i>compound</i> = _	(neutral)						
>	3. Use prefix	and	when appropriate.						
	o Assoc	iation: \longrightarrow	and >						
>	4	change	of <i>polyatomic ion</i> names						
	o Very s	pecial names: Must be	AND						
PROP	ERTIES OF IONI	IC COMPOUNDS:							
>	1	melting and boiling p	points						
>	2	(soft)							
>	3. High		-						
>	4. Held togetl	ner by							
PRACTICE EXAMPLES:									
1.	Co ³⁺ PO ₄ ³⁻ -	→→	→						
2.	Ba ²⁺ ClO ₄ -	>>_	→						
3.	Sodium Persu	ılfate →	>						
4.	Lead (II) Hypo	ochlorite →	>						
5.	$Al_2(CrO_4)_3 \rightarrow Name = $								
6.	Ammonium Hypocarbonite → Formula =								
7.	$K^+ SO_4^{2-} \rightarrow$	→ Nam	ne =						

8. Ba^{2+} $CIO_2^- \rightarrow$ _____ \rightarrow Name = _____