Cornell Notes	Topic/C	Objective: Ionic Compound Naming and	Name:	
	Form	ulas with Polyatomic lons	Class/Period: Chemistry	
AVID®			Date:	
	on: How	are ionic compounds (salts) named w	rith polyatomic ions?	
Questions:		Notes:	Monatomic ion	Polyatomic io
What are the		Monatomic:	2+	0 2-
different types of			Ca	0 0 0
ions (not		Polyatomic:	Calcium cation	Ciliania
anion/cation)?		CaSO ₄	Sulfate anion
			Calcium sulfate	
,, ,				
How is an ionic		•		
compound with a		•		
polyatomic ion		0		
named?		0		
		Name the following ionic communed	.	
		Name the following ionic compound $Ca(NO_3)_2$	S.	
		Mg(0H) ₂		
		(NH ₄) ₂ S		
		11414120		
How do you p	redict			
the formulas				
ionic compour				
with polyator				
ions?				
Summary:				
				

Charges of Common Elements and Polyatomic Ions

NH,+	2+		3+	
4	Barium	Ba ⁺²	Aluminum	Al ⁺³
Cu ⁺	Cadmium	Cd+2	Antimony (III)	Sb ⁺³
Au ⁺	Calcium	Ca+2	Arsenic (III)	As+3
H ⁺	Chromium (II)	Cr+2	Bismuth	Bi ⁺³
Li ⁺	Cobalt (II)	Co+2	Boron	B+3
K ⁺		Cu+2	Cobalt (III)	Co+3
Na ⁺	Iron (II)	Fe ⁺²	Gold (III)	Au+3
Tl+	Lead (II)	Pb ⁺²	Iron (III)	Fe ⁺³
	Magnesium	Mg ⁺²	Manganese (III)	Mn ⁺³
	Mercury (II)	Hg ⁺²	Thalium (III)	Tl+3
	Nickel (II)	Ni*2	Titanium (III)	Ti+3
	Tin (II)	Sn ⁺²	Zirconium (III)	Zr ⁺³
	Zinc	Zn+2		
	2-		3-	
C.H.O.	Carbonate	CO,-2	Arsenate	AsO ₄
	Chromate	CrO ₄ -2	Arsenite	AsO ₃
	Manganate	MnO ₄ -2	Borate	BO ₃ -3
	Oxalate	C2O4-2	Phosphate	PO ₄ -3
	Oxide	O-2		
	Peroxide	O ₂ -2		
	Sulfate	SO ₄ -2		
HCO.	Sulfide	S-2		
	Sulfite	SO ₃ -2		
	Thiosulfate	S ₂ O ₃ -2		
attended to the second of the				
	Au ⁺ H ⁺ Li ⁺ K ⁺ Na ⁺	Au* Calcium H* Chromium (II) Li* Cobalt (II) K* Copper (II) Na* Iron (II) The Lead (II) Magnesium Mercury (II) Nickel (II) Tin (II) Zinc 2- C2H3O2 Carbonate BrO3 Chromate Br Manganate ClO3 Oxalate Cl Oxide CN Peroxide te Sulfate HCO3 Sulfide CIO Sulfite OH Thiosulfate NO3 NO2 MnO4	Au* Calcium Ca*2 H* Chromium (II) Cr*2 Li* Cobalt (II) Co*2 K* Copper (II) Cu*2 Na* Iron (II) Fe*2 Magnesium Mg*2 Mercury (II) Hg*2 Nickel (II) Ni*2 Tin (II) Sn*2 Zinc Zn*2 C2H3O2 Carbonate CO3*2 BrO3 Chromate CrO4*2 Br Manganate MnO4*2 ClO3 Oxalate C2O4*2 Cl Oxide O*2 CN* Peroxide O*2 te Sulfate SO4*2 HCO3* Sulfide S*2 ClO Sulfite SO3*2 OH* Thiosulfate S2O3*2 MnO4*	Au* Calcium Ca*2 Arsenic (III) H* Chromium (II) Cr*2 Bismuth Li* Cobalt (II) Co*2 Boron K* Copper (II) Cu*2 Cobalt (III) Na* Iron (II) Fe*2 Gold (III) Tl* Lead (II) Pb*2 Iron (III) Magnesium Mg*2 Manganese (III) Mercury (II) Hg*2 Thalium (III) Nickel (II) Ni*2 Titanium (III) Tin (II) Sn*2 Zirconium (III) Zinc Zn*2 2- 3- C2H3O2 Carbonate CrO42 Arsenite BrO3 Chromate CrO42 Arsenite Br Manganate MnO42 Borate ClO3 Oxalate C2O42 Phosphate Cl Oxide O2 CN Peroxide O2 Ce Sulfate SO42 The Sulfate SO42 Thiosulfate SO32 Thiosulfate SO32 Thiosulfate SO32 Thiosulfate SO32 Thiosulfate SO32 MnO4