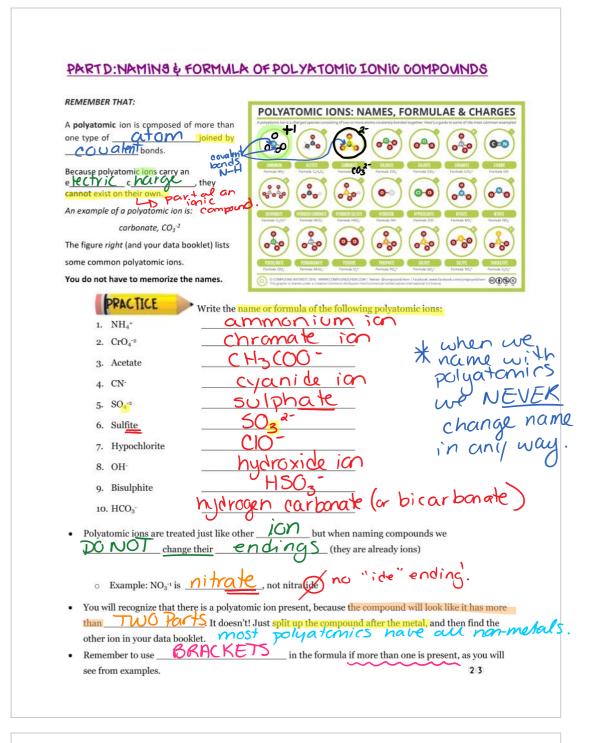
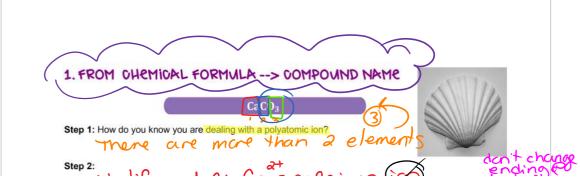
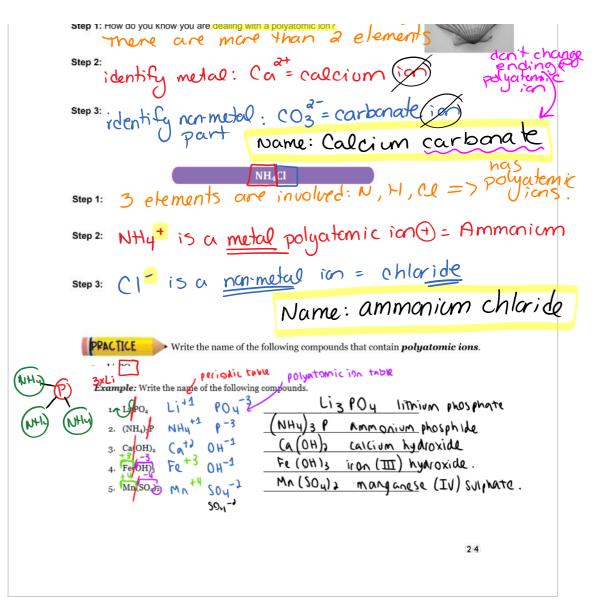
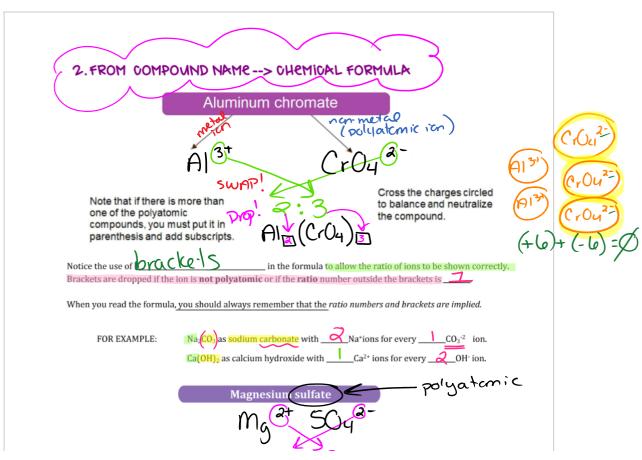
Part D: Naming & Formula of Polyatomic Ionic Compounds

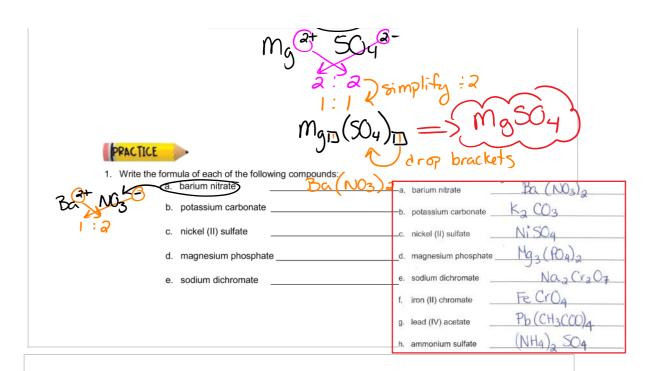
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| Homework |

ASSIGNMENT #6: Ionic Compounds with POLYATOMIC IONS Naming & Formula Review + MAZE on page 27

This assignment is to be completed below in the space provided.

Part 1 – Write the name for each of the following ionic compounds.

1.	Na_2CO_3	sedium carbonate	2.	Fe(OI	$1)_3$	

3. KCH₃COO 4. Co(ClO)₂
5. (NH₄)₃PO₄ 6. Mg₃(PO₄)₂

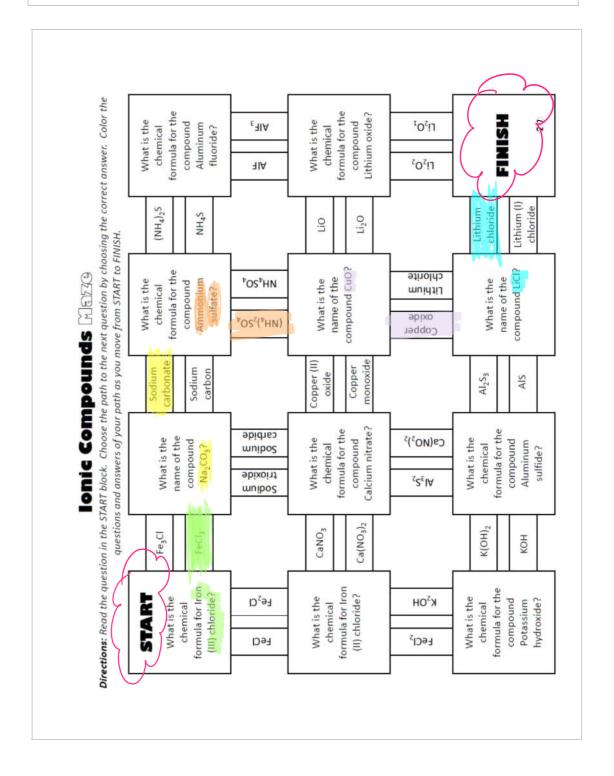
7. Ca(CH₃COO)₂ 8. M_{g3}(PO₃)₂

13. Al(OH)3 Wyminium hydoxide 14. Mn(SO3)2 manganese (II) sulphite

Part 2 – Write the formula for each of the following ionic compounds:

Compound Name	Work	Formula
15. calcium carbonate		CaCO ₃
16. manganese (III) chlorate	Mn3+ C105	$M_{n}(C 10_{3})_{3}$
17. lithium fluoride	Lit F	LiF
18. potassium permanganate	K+ MnO4-	K MnO4
19. sodium chromate	nat CrO42-	Naz CrO4
20. ammonium nitrate	NH4+ NO3-	NH4 NO3
21. lithium hydroxide	Lit OH	LiOH
22. aluminum hydroxide	A13+ OH-	A1 (OH)3
23. lead (II) perchlorate	Pbat ClOy-	Pb(C104)2
24. iron (III) hydrogen sulf <u>ide</u>	Fe3+ H5-	Fe (HS)3
25. vanadium (V) nitrate	V ⁵⁺ NO3	V(NO3)5
26. chromium (II) nitrite	Crat NO2-	Cr(NOa)2
27. nickel (III) sulfite	Ni 34 50 32-	Ni 503

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Writing Compound Names

lonic Bonds (a bond between a metal and a nonmetal)

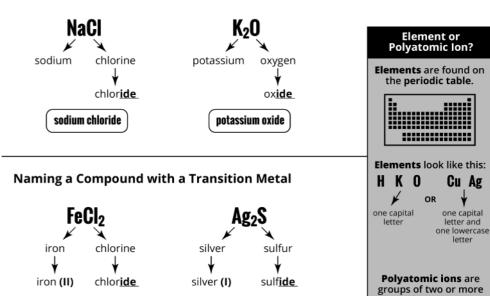
elements.

CIO₃ NH₄ OH

They stick together.

Naming a Binary Ionic Compound

(two elements with no transition metals)

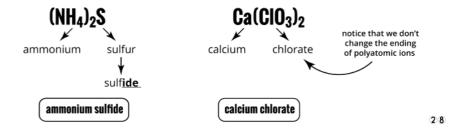


Naming a Compound with a Polyatomic Ion

you can figure out this number based on the number of atoms

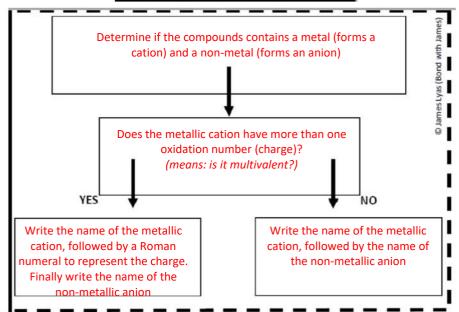
of the second element

iron (II) chloride



silver (I) sulfide

Steps for Naming Binary Ionic Compounds



Directions: Cut out the organizer and smaller pieces along the dotted lines only. Then tape or glue the pieces to help construct a logical sequence of steps for naming ionic compounds.

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Write the name of the metallic cation, followed by the name of the non-metallic anion.

Does the metallic cation have more than one oxidation number? Determine if the compound contains a metal (forms a cation) and a non-metal (forms an anion).

Write the name of the metallic cation, followed by a Roman numeral to represent the charge. Finally write the name of the non-metallic anion.

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