Polyatomic Worksheet

Use the chart in your notes for all the radical information.

1. Write all the possible molecular formulas and names of the molecules formed when the following metals and radicals bond.

Na	Ca	Al	CO_3^{2-}	ClO ₃	PO ₄ ³⁻
Formula			Name		
Na 2 CO3	3		Sodium	carbonate	
. 010			М	11 .	

2. Some of the following molecules do not have the proper ions showing. Determine which

are wrong and correct them. Correction Molecule NaOH Li₂NO₃ Ca₃(CrO₄)₂ BPO₄ Be(PO₄) MgCO₃ Mg(ClO₃)₂ H₂SO₄

	3. The f	ormula aluminum oxalate al oxalate, 6204?	is $Al_2(C_2O_4)_3$. In this	formula, what is the charge of the
	A) 1-	B) 2-	C) 3-	D) 6-
	table,	the formula of the compo	ound resulting from its	ine with the help of the periodic s combination with magnesium.
	A) MgAsO ₄	(B) Mg3(AsO4)2	C) Mg_3AsO_4	D) $Mg(AsO_4)_3$
1	5. Amor A) H ₂ SO ₄	ng the following chemical B) NH ₄ OH	formulas, which cont C) NaNO ₃	ains two radicals? D) CaCO ₃
£	6. Amor A) (NH ₄)SO ₄	ng the following chemical B) NaNO ₃	formulas, which cont C) $Ca_3(PO_4)_2$	ains a radical with a -3 charge? D) MgCO ₃
CE	composition (A) In the composition (B) In the composition (C) In the composition (C)	statement below indicates bund. Which of the follow apound $Ca(NO_3)_2$, the elepound $Al_2(CrO_4)_3$, the elepound K_2SO_4 , the electrication of NH ₄ Cl, the electrication in the state of the stat	ving statements is true octric charge on the NO ectric charge on the Co charge on the SO ₄ io	O_3 ion is 2- rO_4 ion is 2- rO_4 ion is 1-
A	8. What PO ₄ 3- A) MgPO ₄	is the molecular formula owith the magnesium ion? B) Mg ₃ PO ₄	of the compound form C) $Mg_2(PO_4)_3$	ed by combining the phosphate ion $DMg_3(PO_4)_2$
Α	9. The m of the	olecular formula for bariu polyatomic ion silicate Si B) 1-	um silicate is BaSiO ₃ . O ₃ ? C) 2+	In this formula, what is the charge
A	10. Among (NH ₄) ₂ SO ₄	g the following chemical to B) Ca ₃ (PO ₄) ₂	formulas, which conta C) NaNO ₃	ins s radical with a -3 charge? D) MgCO ₃
	11. Which	of the following is the co $Cr_2O_7^{2-}$?	rrect formula for the c	compound aluminum cation and
A) AlCr ₂ O ₇	B) Al ₃ (Cr ₂ O ₇) ₂	C) Al ₂ Cr ₂ O ₇	(D) $Al_2(Cr_2O_7)_3$
A		olecular formula for magn of the polyatomic ion cro B) 1-		gCrO ₄ . In this formula, what is the
		he chemical formula for the clowing cations.	he compound formed	between the anion PO ₄ ³⁻ and each
A-	- sodium	Na3 104	_ C- calcium	as(PD4)2
В-	aluminum_	Q1104		