Ionic Compounds Review Extra Practice Compounds w/Polyatomic Ions

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	Exam	ples of	f Ionic	Com	pounds	with	Poly	yatomic	lons
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- Na₂SO₄ →
 KNO₃ →
 Ca(OH)₂ →
- 4. NH₄CI →
- 5. $Mg(C_2H_3O_2)_2 \rightarrow$
- 6. **Ba(NO₃)**₂ →
- 7. $Al_2(SO_4)_3 \rightarrow$

Pro Tip for Naming:

- Name the cation (metal or ammonium) first.
- Name the **polyatomic ion** as-is.
- Watch out for parentheses when more than one polyatomic ion is needed to balance the charges

Part 2: Write the Formula for the Given Ionic Compound with Polyatomic Ions

1.	Lithium phosphate →
2.	Ammonium sulfate \rightarrow
3.	Calcium carbonate \rightarrow
4.	Potassium chlorate →

^{**}Answers are on Page 3!

- 5. Magnesium nitrate → _____
- 6. Sodium bicarbonate → _____
- 7. Iron (III) hydroxide \rightarrow _____

Pro Tip for Students:

- Remember to balance the charges to ensure the compound is neutral.
- Use parentheses for polyatomic ions when more than one is required.

Answer Key Part 1:

- 1. **Sodium sulfate** → Na₂SO₄
- 2. Potassium nitrate → KNO₃
- 3. Calcium hydroxide → Ca(OH)₂
- 4. Ammonium chloride → NH₄Cl
- 5. Magnesium acetate $\rightarrow Mg(C_2H_3O_2)_2$
- 6. Barium nitrate → Ba(NO₃)₂
- 7. Aluminum sulfate $\rightarrow Al_2(SO_4)_3$

Answer Key Part 2:

- 1. Lithium phosphate → Li₃PO₄
- 2. Ammonium sulfate $\rightarrow (NH_4)_2SO_4$
- 3. Calcium carbonate → CaCO₃
- 4. Potassium chlorate → KClO₃
- 5. Magnesium nitrate $\rightarrow Mg(NO_3)_2$
- 6. Sodium bicarbonate → NaHCO₃
- 7. Iron (III) hydroxide $\rightarrow Fe(OH)_3$