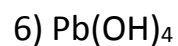
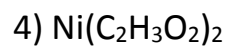
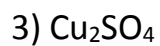
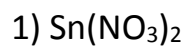


Naming compound

Name the Compound with polyatomic ions



Write the correct formula for the compound with polyatomic ions (show your work):

1) Sodium Chloride

2) Potassium permanganate

3) Lead (III) hydroxide

4) Lithium carbonate

5) Calcium acetate

6) Sodium phosphate

Write the names for the following Molecular compounds:

- 1) P_4S_5 _____
- 2) O_2 _____
- 3) SF_6 _____
- 4) Si_2Br_6 _____
- 5) SCl_4 _____
- 6) CH_4 _____
- 7) B_2Si _____
- 18) NF_3 _____
- 19) N_2O_5 _____

Write the formulas for the following covalent compounds: Show your work!!!!

- 1) nitrogen tribromide _____
- 2) hexaboron monosilide _____
- 3) chlorine dioxide _____
- 4) hydrogen monoiodide _____
- 5) iodine pentafluoride _____
- 6) dinitrogen trioxide _____
- 7) diphosphorous pentoxide) _____
- 8) phosphorus triiodide _____
- 9) dihydrogen monoxide _____

Use your spinner to decide which naming strategy to use

Look at the chemical formula you are naming and ask yourself these 3 questions:

Q1. Are there more than 2 elements?

Yes—Compound with Polyatomic Ions No—Go to Q2.

Q2. Is there a metal?

Yes—Go to Q3. No—Molecular Compound

Q3. Does the metal have multiple ionic charges?

Yes—Binary Ionic Compound (Metal with Multiple Ionic Charges)

No—Binary Ionic Compound

1) Na_2O

- Are there more than two elements? _____ if **YES**, stop, what kind of compound is it? _____
- Is there a metal? if **NO**, stop, what kind of compound is it?

- Does the metal have multiple ionic charges (transition metal)? If yes, it is _____, if no, it is _____

Name the compound _____

2) $\text{Pb}(\text{OH})_4$

- Are there more than two elements? _____ if **YES**, stop, what kind of compound is it? _____
- Is there a metal? if **NO**, stop, what kind of compound is it?

- Does the metal have multiple ionic charges (transition metal)? If yes, it is _____, if no, it is _____

Name the compound _____

3) H_2O

- Are there more than two elements? _____ if **YES**, stop, what kind of compound is it? _____
- Is there a metal? if **NO**, stop, what kind of compound is it?

- Does the metal have multiple ionic charges (transition metal)? If yes, it is _____, if no, it is _____

Name the compound _____

4) FeP_2

- Are there more than two elements? _____ if **YES**, stop, what kind of compound is it? _____
- Is there a metal? if **NO**, stop, what kind of compound is it?

- Does the metal have multiple ionic charges (transition metal)? If yes, it is _____, if no, it is _____

Name the compound _____

5) $\text{Ni}_3(\text{PO}_4)_2$

- Are there more than two elements? _____ if **YES**, stop, what kind of compound is it? _____
- Is there a metal? if **NO**, stop, what kind of compound is it?

- Does the metal have multiple ionic charges (transition metal)? If yes, it is _____, if no, it is _____

Name the compound _____

4) N_2O_5

- Are there more than two elements? _____ if **YES**, stop, what kind of compound is it? _____
- Is there a metal? if **NO**, stop, what kind of compound is it?

- Does the metal have multiple ionic charges (transition metal)? If yes, it is _____, if no, it is _____

Name the compound _____