

1. Write the chemical formula for compounds containing:

| | |
|---|--|
| 1 Nitrogen for every 3 oxygen atoms | |
| 5 Phosphorus atoms for every 2 Nitrogen atoms | |
| 1 Calcium and 2 nitrates (polyatomic) | |
| One Chromium and 2 Sulfur atoms | |
| 2 ammonium ions and 1 carbonate | |
| 2 nickel atoms and 2 sulfite ions | |
| 2 Hydrogen atoms and one sulfur atom | |
| 2 Sodium atoms and one sulfate ion | |

**Make sure you use parenthesis and subscripts where needed. Order Counts!*

2. Complete the table:

| Formula | Number of CO_3^{-2} units | Number of carbon atoms | Number of oxygen atoms | Number of metal atoms |
|--|------------------------------------|------------------------|------------------------|-----------------------|
| CaCO_3 | | | | |
| $\text{Al}_2(\text{CO}_3)_3$ | | | | |
| Ag_2CO_3 | | | | |

| Formula | Number of PO_4^{-3} units | Number of P atoms | Number of oxygen atoms | Number of metal atoms |
|--|------------------------------------|-------------------|------------------------|-----------------------|
| $\text{Ca}_3(\text{PO}_4)_2$ | | | | |
| K_3PO_4 | | | | |
| $\text{Sn}_3(\text{PO}_4)_4$ | | | | |

