

Ternary compounds have _____ kinds of elements. They are nearly always composed of a monatomic (_____) metallic ion and a polyatomic (_____) anion. The only positively charged polyatomic ion is _____. To write the formula of a ternary compound is no different than to write the formula of a binary compound with one exception. If a subscript is necessary for the polyatomic ion in order to _____ charge, we must place the polyatomic ion in _____.

In each box, write the formula of the ionic compound consisting of the positive ion to the left of the box and the negative ion above the box.

| | OH^- | SO_4^{2-} | NO_3^- | CO_3^{2-} | PO_4^{3-} |
|------------------|---------------|--------------------|-----------------|--------------------|--------------------|
| K^+ | | | | | |
| Mn^{2+} | | | | | |
| NH_4^+ | | | | | |
| Al^{3+} | | | | | |
| Ca^{2+} | | | | | |
| Fe^{3+} | | | | | |