

"Memorizing" -ate polyatomic ions:

2 suffixes:

- -ate: the most number of oxygens (**3 or 4**)

- -ite: one less oxygen than -ate

2 prefixes:

- per-: one more oxygen than -ate

- hypo-: the least number of oxygens

NOTE:

- # OF OXYGENS WILL CHANGE, but THE CHARGE on the polyatomic ions WILL NOT CHANGE in relationship to the prefixes & suffixes.

-ate: the most number of oxygens (**3 or 4**)

- o If it's in the seven, then it has **O₃**
 - ClO_3^{1-}
 - NO_3^{1-}
- o If it's in the middle, it has more **O₄**
 - PO_4^{3-}
 - SO_4^{2-}

	3	4	5	6	7	8
	5 BO_3^{3-}	6 CO_3^{2-}	7 NO_3^{1-}	8 O <small>STOP, START OVER</small>	9 FO_3^{1-}	10 Ne
	13 Al	14 SiO_4^{4-}	15 PO_4^{3-}	16 SO_4^{2-}	17 ClO_3^{1-}	18 Ar
30 Zn	31 Ga	32 Ge	33 AsO_4^{3-}	34 SeO_4^{2-}	35 BrO_3^{1-}	36 Kr
48 Cd	49 In	50 Sn	51 Sb	52 TeO_4^{2-}	53 IO_3^{1-}	54 Xe