Variable oxidation state (VOS) metals are those metals that can have more than one charge when forming an ion. For example, iron is a variable oxidation state metal because it can be either Fe^{2+} or Fe^{3+} . Here are ALL of the variable oxidation state metals you are responsible for: **Ti**, **Cr**, **Mn**, **Fe**, **Co**, **Ni**, **Cu**, **Sn**, **Sb**, **Au**, **Hg**, **Pb**, **and Bi**. If one of these is present, you MUST use roman numerals in the name of the compound. If one of these is not present you must NOT use roman numerals in the name.

The red box below contains the variable oxidation state metals. Everything inside that box is a VOS, the green ones are the ones you are responsible for (same as the list above) and the ones in yellow are the exceptions to the VOS rules (Zn, Cd, Ag have set ionic charges, which are listed).

IA 1																	VIIIA 18
	IIA 2											IIIA 13	IVA 14	VA 15	VIA 16	VIIA 17	
		IIIB 3	IVB 4	VB 5	VIB 6	VIIB 7	VIII 8	VIII 9	VIII 10	IB 11	IIB 12						
			Ti		Cr	Mn	Fe	Со	Ni	Cu	Zn ⁺²						
										+1 Ag	+2 Cd		Sn	Sb			
										Au	Hg		Pb	Bi			
			``														