

# Ionic Nomenclature

Metals & Non-Metals

## Ionic Bonding & Nomenclature

- bonding between a metal & a non-metal
- electrons are transferred

## 3 Naming Possibilities

### 1. metals with only 1 possible oxidation number (ionic charge)

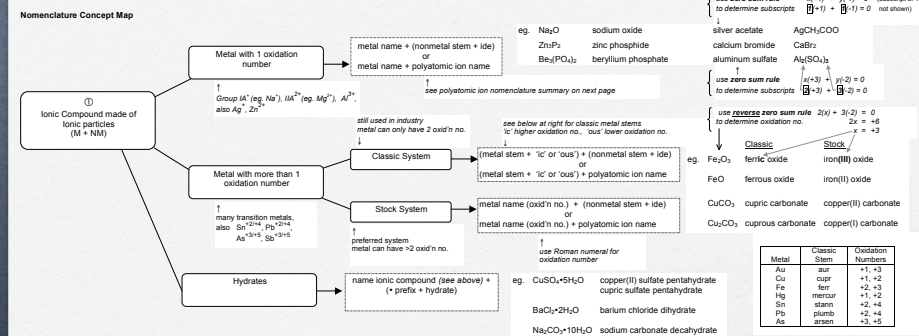
- Group 1A (alkali metals), 2A (alkaline earth metals), and 3A (aluminum group), some transition metals ( $Zn^{2+}$ ,  $Ag^{1+}$ ), and  $NH_4^{1+}$

### 2. metals with 2 or more possible oxidation numbers

- Most of your transition metals ( $Au^{1+}$  &  $Au^{3+}$ )
- There is the classic system & the stock system (we are ONLY using the STOCK system throughout this course)

### 3. hydrates

- Either of the above groups, but always attached to a specific number of water molecules



Now attempt the success criteria work on ionic nomenclature