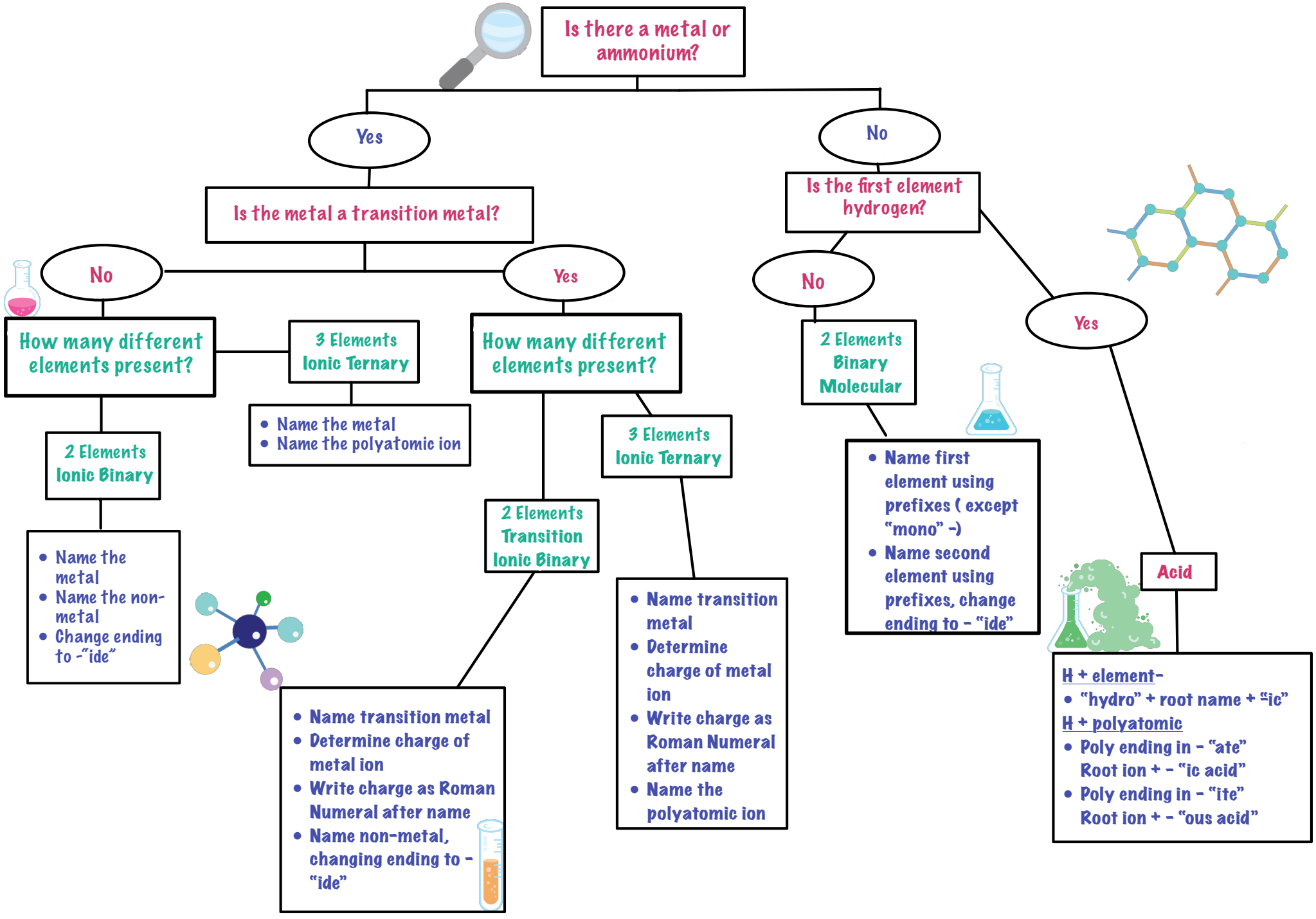
Is there a metal or ammonium?
Yes
No
Is the metal a transition metal?
No
Yes
How many different elements present?
3 Elements Ionic Ternary
Name the metal
Name the polyatomic ion
2 Elements Ionic Binary
Name the metal
Name the non-metal
Change ending to -"ide"
How many different elements present?
2 Elements Transition Ionic Binary
Name transition metal
Determine charge of metal ion
Write charge as Roman Numeral after name
Name non-metal, changing ending to - "ide"
3 Elements Ionic Ternary
Name transition metal
Determine charge of metal ion
Write charge as Roman Numeral after name
Name the polyatomic ion
Is the first element hydrogen?
No
Yes
2 Elements Binary Molecular
Name first element using prefixes (except "mono" -)
Name second element using prefixes, change ending to - "ide"
Acid
H + element-
"hydro" + root name + "ic"
H + polyatomic
Poly ending in - "ate" Root ion + - "ic acid"
Poly ending in - "ite" Root ion + - "ous acid"