

Name _____ Period _____

CP Chemistry of the Earth

Assignment 2M – Transition Metal Naming and Ion Formation

30 Points

Complete the following chart using the in class polyatomic ion chart, including name and charge

Ion	Ion Name	Charge	Ion	Ion Name	Charge
Pb^{4+}				Nickel(II) Ion	
Pb^{2+}				Nickel(III) Ion	
Y^{3+}				Vanadium(III) Ion	
Y^{2+}				Vanadium(V) Ion	

Complete the following ionic compounds based on the chart below using the cross method.

Elements	Ti	Br	Mn	O	Cd	N
Ion Charge						
Metal Name	Titanium(IV) Ion		Manganese(III) Ion		Cadmium(I) Ion	
Cross Method						
Ionic Formula						

Elements	Ni	F	Pb	N	Cu	O
Ion Charge						
Metal Name	Nickel(II) Ion		Lead(II) Ion		Copper(II) Ion	
Cross Method						
Ionic Formula						

Elements	Sn	I	W	N	Ag	S
Ion Charge						
Metal Name	Tin(IV) Ion		Tungsten(VI) Ion		Silver(I) Ion	
Cross Method						
Ionic Formula						