

WORKSHEET – Multivalent Metal Ions

Name: _____ Date: _____ Block: _____

Complete the chart. Use the back of your periodic table to find the polyatomic (or radical) ions.

Name	Ions	Formula
Chromium (II) chloride		
Chromium (III) chloride		
Copper (I) sulphide		
Iron (II) phosphide		
Iron (III) phosphide		
Manganese (II) oxide		
Manganese (IV) oxide		
Tin (II) nitride		
Tin (IV) nitride		
Lead (IV) chloride		

Explain how you:

- Write the formula for a compound that has a multivalent metal ion. **Write the metal ion. The Roman numeral in the brackets indicates what the ion charge on the metal ion. Write the non-metal ion. Criss-cross.**

Chapter 3 – Ionic Bonds

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Complete the chart. Use the back of your periodic table to find the polyatomic (or radical) ions.

Formula	Ions	Name
CrBr_2		
CrBr_3		
FeI_2		
FeI_3		
PbS		
PbF_4		
Fe_2O_3		
Hg_3P_2		
MnS		
MnS_2		

Explain how you:

a) Name a compound that includes a multivalent metal ion. **Write the metal name first. To indicate which ion you are using, put the ion charge number as a Roman numeral in brackets after the metal name. Write the non-metal name next, changing the ending to “ide”.**