

Warm up

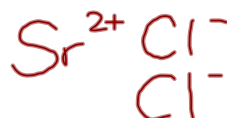
Write the chemical formula or name for the following ionic compounds:

a) KI



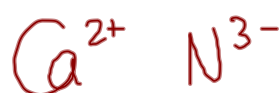
potassium iodide

b) SrCl₂



strontium chloride

c) calcium nitride



d) aluminum sulfide



Multi-Valent Metals

- can form more than one type of ion (always positive).
- include transition metals and some representative metals.



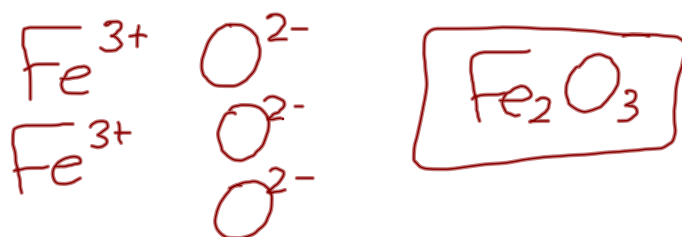
In the periodic table the most common ion is usually listed in the key.

In naming multi-valent compounds (from a formula):

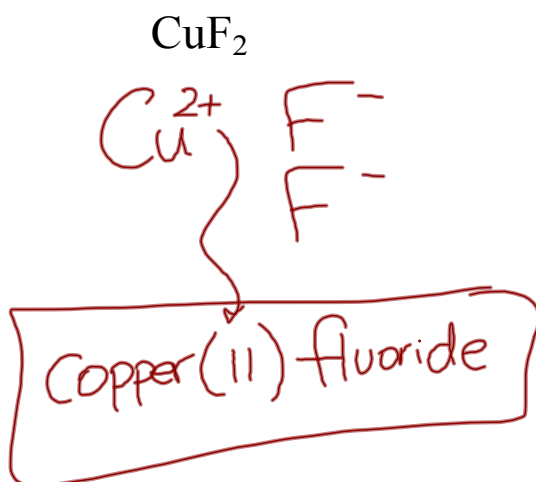
- [a] name the two ions
- [b] place the charge of the metal ion in roman numerals after the metal ion.
- [c] end the anion with an -ide suffix.

Ex. Name to Formula:

iron (III) oxide

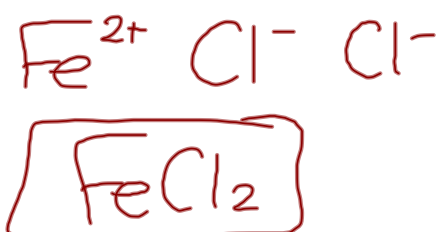


Formula to Name :

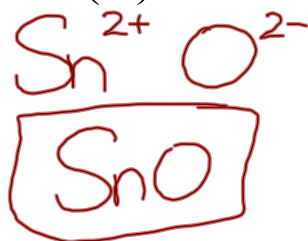


Write the chemical formula or name for the following ionic compounds:

a) iron (II) chloride



b) tin (II) oxide

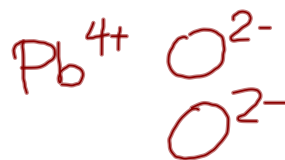


c) CuCl_2

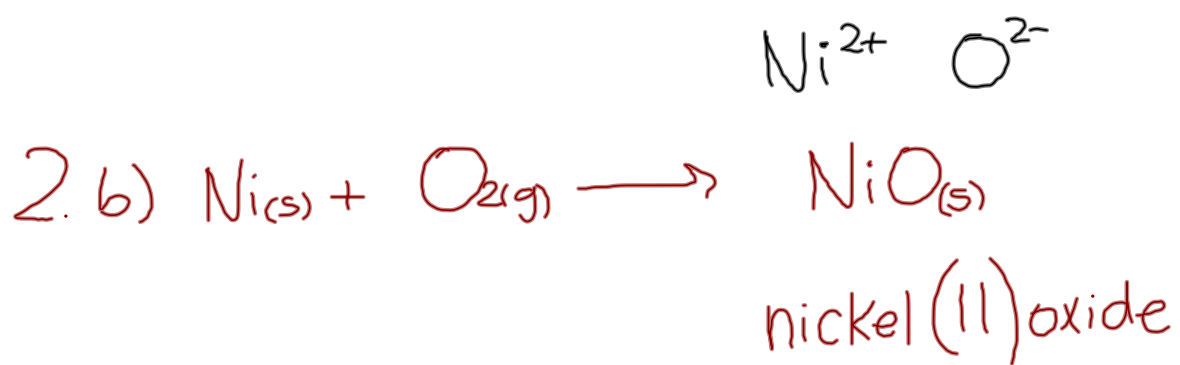


copper (II) chloride

d) PbO_2



lead (IV) oxide



Binary Ionic Compounds Type II

Worksheet

I	II										III	IV	V	VI	VII	VIII	
H																He	
Li	Be										B	C	N	O	F	Ne	
Na	Mg										Al	Si	P	S	Cl	Ar	
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba		Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra		Rf	Db	Sg	Bh	Hs	Mt	Uun	Uuu	Uub						
			La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
			Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

