Common Ion Sheet
Honors Chemistry Reference

Name: _____

Transition Metals (can have more than one charge)

Ion Name	Formula and Charge
Antimony (III)	Sb^{3+}
Antimony (V)	Sb^{5+}
Arsenic (III)	As^{3+}
Arsenic (V)	As^{5+}
Chromium (II)	Cr^{2+}
Chromium (III)	Cr^{3+}
Cobalt (II)	Co^{2+}
Cobalt (III)	Co^{3+}
Copper (I) "cuprous"	Cu^{1+}
Copper (II) "cupric"	Cu^{2+}
Gold (I) "aurous"	Au^{1+}
Gold (III) "auric"	Au^{3+}
Iron (II) "ferrous"	Fe^{2+}
Iron (III) "ferric"	Fe^{3+}
Lead (II) "plumbous"	Pb^{2+}
Lead (IV) "plumbic"	Pb^{4+}
Manganese (II)	Mn^{2+}
Manganese (III)	Mn^{3+}
Mercury (I) "mercurous"	Hg_2^{1+}
Mercury (II) "mercuric"	Hg^{2+}
Nickel (II)	Ni^{2+}
Nickel (III)	Ni^{3+}
Platinum (II)	Pt^{2+}
Platinum (IV)	Pt^{4+}
Silver	Ag^{1+}
Tin (II) "stannous"	Sn^{2+}
Tin (IV) "stannic"	Sn^{4+}
Zinc	Zn^{1+}

Polyatomic Cation (positive charge)

Ion Name	Formula and Charge
Ammonium	NH_4^{1+}

Polyatomic Anions (negative charge)

Ion Name	Formula and Charge
Acetate	$C_2H_3O_2^{1-}$ or CH_3COO^{1-}
Bicarbonate "hydrogen carbonate"	HCO_3^{1-}
Bisulfite	HSO_3^{1-}
Bisulfate	HSO_4^{1-}
Bromate	BrO_3^{1-}
Bromite	BrO_2^{3-}
Carbonate	CO_3^{2-}
Chlorite	ClO_2^{1-}
Chlorate	ClO_3^{1-}
Chromate	CrO_4^{2-}
Cyanide	CN^{1-}
Dichromate	$Cr_2O_7^{2-}$
Hydride	H^{1-}
Hydroxide	OH^{1-}
Hypochlorite	ClO^{1-}
Iodate	IO_3^{1-}
Manganate	MnO_4^{2-}
Nitrite	NO_2^{1-}
Nitrate	NO_3^{1-}
Oxalate	$C_2O_4^{2-}$
Perchlorate	ClO_4^{1-}
Peroxide	O_2^{2-}
Permanganate	MnO_4^{1-}
Phosphate	PO_4^{3-}
Phosphite	PO_3^{2-}
Sulfate	SO_4^{2-}
Sulfite	SO_3^{2-}
Thiosulfate	$S_2O_3^{2-}$
Thiocyanate	SCN^{1-}