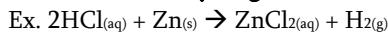


Table of Polyatomic Ions

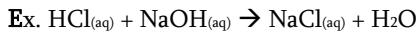
<u>Acetate</u>	CH_3COO^- or $\text{C}_2\text{H}_3\text{O}_2^-$	<u>Hydronium</u>	H_3O^+
<u>Aluminate</u>	AlO_2^- , $\text{Al}_2\text{O}_4^{2-}$	<u>Hydroxide</u>	OH^-
<u>Amide</u>	NH_2^-	<u>Hypobromite</u>	BrO^-
<u>Ammonium</u>	NH_4^+	<u>Hypochlorite</u>	ClO^-
<u>Antimonate</u>	SbO_4^{3-}	<u>Hypoiodite</u>	IO^-
<u>Antimonite</u>	SbO_3^{3-}	<u>Hypophosphite</u>	PO_2^{3-}
<u>Arsenate</u>	AsO_4^{3-}	<u>Hyposulfite</u>	SO_2^{2-}
<u>Arsenite</u>	AsO_3^{3-}	<u>Iodate</u>	IO_3^-
<u>Bicarbonate</u> (hydrogen carbonate)	HCO_3^-	<u>Iodite</u>	IO_2^-
<u>Bromate</u>	BrO_3^-	<u>Manganate</u>	MnO_4^{2-}
<u>Bromite</u>	BrO_2^-	<u>Nitrate</u>	NO_3^-
<u>Carbide</u>	C_2^{2-}	<u>Nitrite</u>	NO_2^-
<u>Carbonate</u>	CO_3^{2-}	<u>Ozonide</u>	O_3^-
<u>Chlorate</u>	ClO_3^-	<u>Perbromate</u>	BrO_4^-
<u>Chlorite</u>	ClO_2^-	<u>Perchlorate</u>	ClO_4^-
<u>Chromate</u>	CrO_4^{2-}	<u>Periodate</u>	IO_4^-
<u>Chromite</u>	CrO_2^-	<u>Permanganate</u>	MnO_4^-
<u>Cyanate</u>	OCN^-	<u>Peroxide</u>	O_2^{2-}
<u>Cyanide</u>	CN^-	<u>Phosphate</u>	PO_4^{3-}
<u>Dichromate</u>	$\text{Cr}_2\text{O}_7^{2-}$	<u>Phosphite</u>	PO_3^{3-}
<u>Dihydrogen arsenate</u>	H_2AsO_4^-	<u>Plumbate</u>	PbO_3^{2-}
<u>Dihydrogen phosphate</u>	H_2PO_4^-	<u>Plumbite</u>	PbO_2^{2-}
<u>Dihydrogen phosphite</u>	H_2PO_3^-	<u>Stannate</u>	SnO_3^{2-}
<u>Disulfide</u>	S_2^{2-}	<u>Stannite</u>	SnO_2^{2-}
<u>Ferrate</u>	FeO_4^{2-}	<u>Sulfate</u>	SO_4^{2-}
<u>Hydrogen carbonate</u> (bicarbonate)	HCO_3^-	<u>Sulfite</u>	SO_3^{2-}
<u>Hydrogen arsenate</u>	HAsO_4^{2-}	<u>Superoxide</u>	O_2^-
<u>Hydrogen phosphate</u>	HPO_4^{2-}	<u>Tartrate</u>	$(\text{CH}(\text{OH})\text{COO})_2^{2-}$
<u>Hydrogen phosphite</u>	HPO_3^{2-}	<u>Tellurite</u>	TeO_3^{2-}
<u>Hydrogen sulfate</u>	HSO_4^-	<u>Thiocyanate</u>	SCN^-
<u>Hydrogen sulfite</u>	HSO_3^-	<u>Thiosulfate</u>	$\text{S}_2\text{O}_3^{2-}$

Reactions of Acids

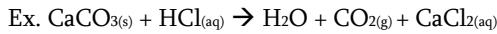
1. Acid + Metal \rightarrow Salt + Hydrogen Gas



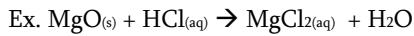
2. Acid + Base \rightarrow Salt + Water



3. Acid + Metal Carbonate \rightarrow $\text{CO}_2 + \text{H}_2\text{O} + \text{Salt}$



4. Metal Oxide + Acid \rightarrow Salt + Water



Evidence for Chemical Change:

Tests for Gases:

Oxygen

Hydrogen

Carbon Dioxide