

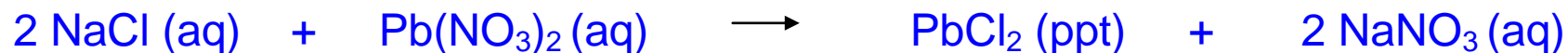
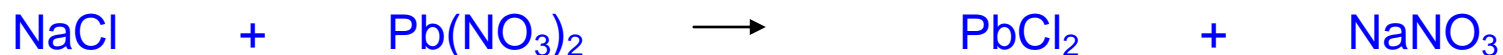
Chemistry: *Chemical Word Equations*

KEY

Directions: Write a balanced chemical equation for each of the word equations below.

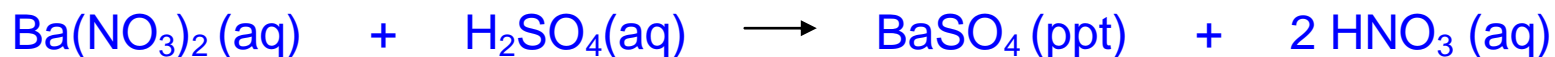
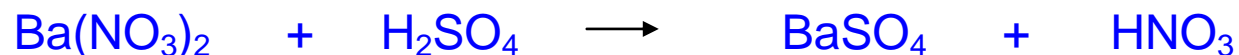
1. aqueous sodium chloride reacts with aqueous lead (II) nitrate to yield a lead (II) chloride precipitate and aqueous sodium nitrate

sodium chloride + lead (II) nitrate \longrightarrow lead (II) chloride + sodium nitrate



2. aqueous barium nitrate reacts with sulfuric acid [$\text{H}_2\text{SO}_4\text{(aq)}$] to yield a barium sulfate precipitate and nitric acid [$\text{HNO}_3\text{(aq)}$]

barium nitrate + sulfuric acid \longrightarrow barium sulfate + nitric acid



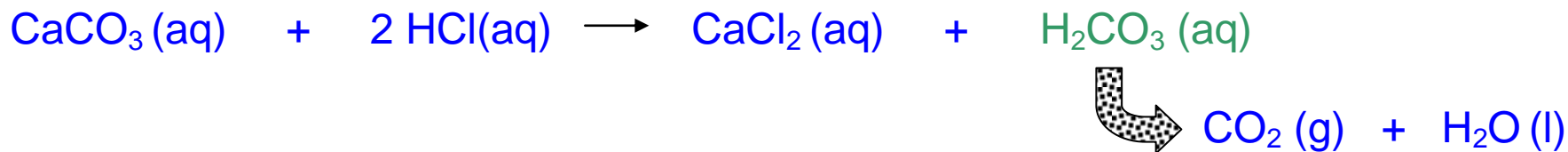
3. silver nitrate reacts in solution with potassium chromate to yield a silver chromate precipitate and soluble potassium nitrate

silver nitrate + potassium chromate \longrightarrow silver chromate + potassium nitrate



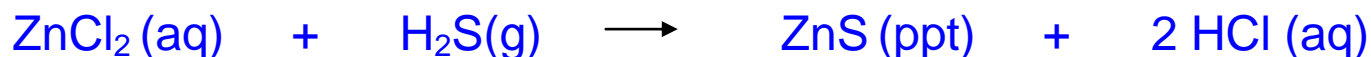
4. solid calcium carbonate reacts with hydrochloric acid [HCl(aq)] to yield aqueous calcium chloride, carbon dioxide gas, and liquid water

calcium carbonate + hydrochloric acid \longrightarrow calcium chloride + carbon dioxide + water



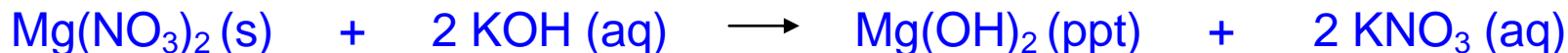
5. aqueous zinc chloride reacts with dihydrogen monosulfide gas to yield a zinc sulfide precipitate and hydrochloric acid

zinc chloride + dihydrogen monosulfide \longrightarrow zinc sulfide + hydrochloric acid



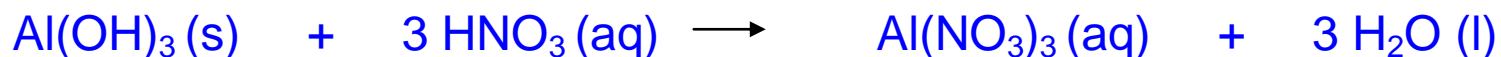
6. magnesium nitrate reacts in solution with potassium hydroxide to yield a magnesium hydroxide precipitate and soluble potassium nitrate

magnesium nitrate + potassium hydroxide \longrightarrow magnesium hydroxide + potassium nitrate

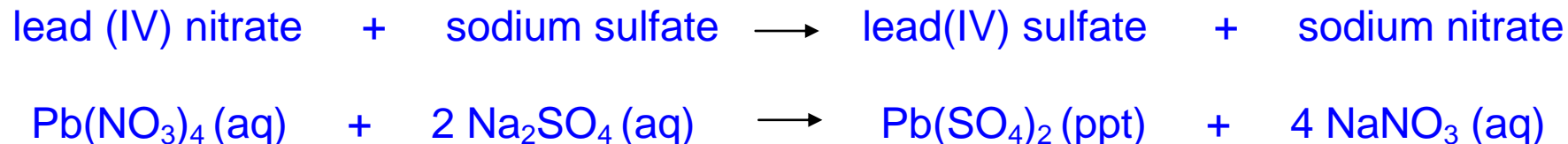


7. solid aluminum hydroxide reacts with nitric acid to yield soluble aluminum nitrate and liquid water

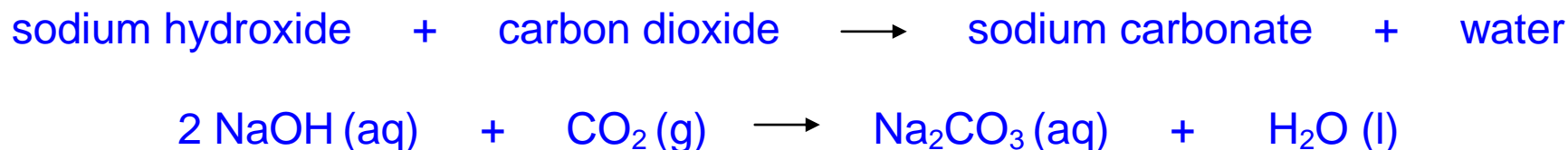
aluminum hydroxide + nitric acid \longrightarrow aluminum nitrate + water



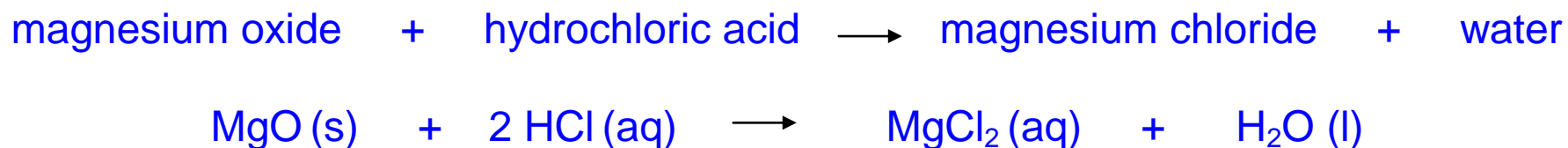
8. aqueous lead (IV) nitrate reacts with aqueous sodium sulfate to yield a lead (IV) sulfate precipitate and soluble sodium nitrate



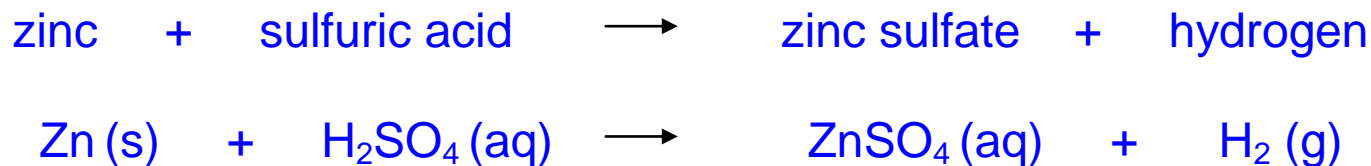
9. aqueous sodium hydroxide reacts with carbon dioxide gas to yield soluble sodium carbonate and liquid water



10. solid magnesium oxide reacts with hydrochloric acid to yield a solution of magnesium chloride and liquid water



11. solid zinc metal reacts with sulfuric acid to yield aqueous zinc sulfate and hydrogen gas



12. solid ferric oxide reacts with solid aluminum metal to yield solid aluminum oxide and solid iron metal

