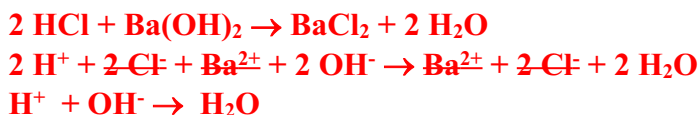


## 5 • Reactions in Aqueous Solution

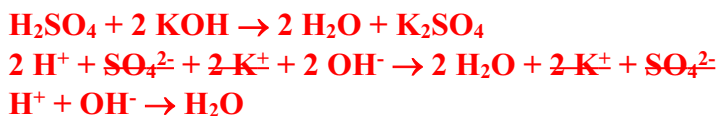
### Acid-Base & Gas Forming Equations

#### Solutions of Strong Acids & Strong Bases

1. Solutions of hydrochloric acid and barium hydroxide are mixed.

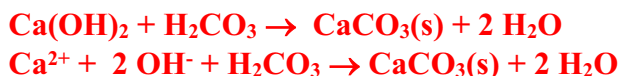


2. Solutions of sulfuric acid and potassium hydroxide are mixed.

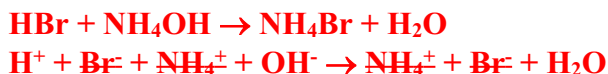


#### Solutions containing Weak Acids and/or Weak Bases

3. Solutions of calcium hydroxide and carbonic acid are mixed.

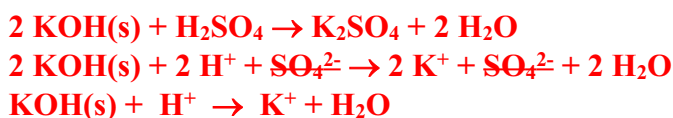


4. Solutions of hydrobromic acid and ammonium hydroxide are mixed.

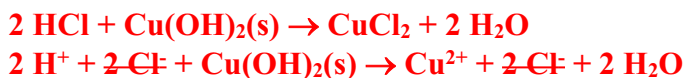


#### Solutions reacting with Solids

5. Solid potassium hydroxide is added to a solution of sulfuric acid.

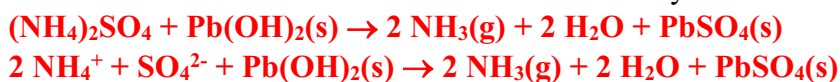


6. A solution of hydrochloric acid is added to solid copper(II) hydroxide.



#### Gas Forming Reactions

7. A solution of ammonium sulfate is added to solid lead hydroxide.



8. Solid iron(III) sulfide is added to a dilute solution of sulfuric acid.

