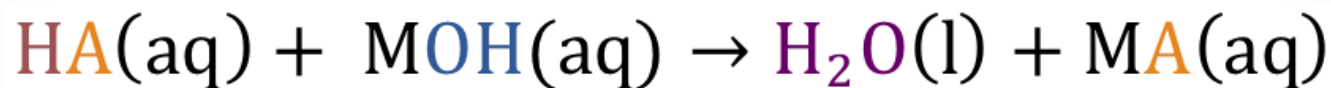


Common Acid Reactions

Section 9.7

Acids and Hydroxide Bases

- Neutralization reaction
- Products are water and ionic salt



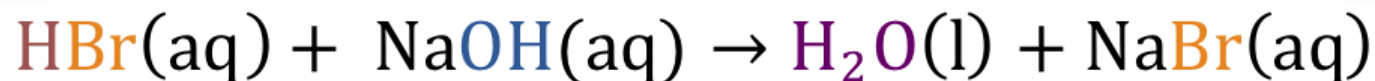
- Where M is some metal, and A is some anion

Example #1

Determine the products of the reaction between NaOH and HBr.

Example #1

- Metal is Na^+
- Anion is Br^-



Acids and Carbonate or Bicarbonate

- Products are water and carbon dioxide and ionic salt



- Where M is some metal, and A is some anion

Example #2

Write a balanced equation for the reaction of nitric acid (HNO_3) with each compound:



Example #2 Solved

a. NaHCO_3 : Na^+ is M, NO_3^- is A

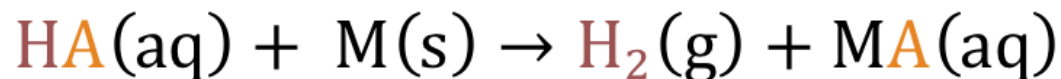


b. MgCO_3 : Mg^{2+} is M, NO_3^- is A



Acids and Metals

- Products are hydrogen gas and ionic salt



- Where M is some metal, and A is some anion

Example #3

Write a balanced equation for the reaction of sulfuric acid (H_2SO_4) with each metal:

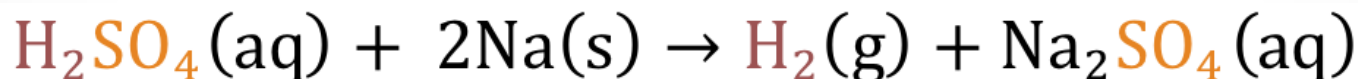
a. Na

b. Ca

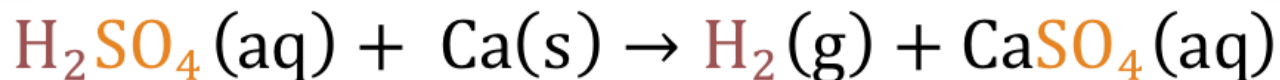
c. Sr

Example #3 Solved

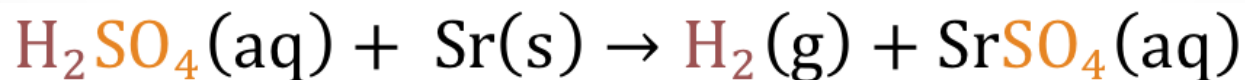
a. Na



b. Ca



c. Sr



Example #4

Write a balanced equation for the reaction of hydrochloric acid (HCl) with each compound:

a. LiOH

b. Na_2CO_3

c. Mg