

Introduction to Natural Science, Fall 2006
Chemistry Workshop – Week 7

1. Determine if the following compounds are water-soluble. If water soluble, determine the ions present in solution.
 - MgCO₃
 - NH₄NO₃
 - KBr
 - Fe(OH)₃
 - CaSO₄
2. When the following solutions are mixed together, what precipitate (if any) will form. Write the complete and net ionic equations.
 - FeSO₄ (aq) + KCl (aq)
 - Al(NO₃)₃ (aq) + Ba(OH)₂ (aq)
 - CaCl₂ (aq) + Na₂SO₄ (aq)
 - K₂S (aq) + Ni(NO₃)₂ (aq)
3. Write the complete ionic and net ionic reactions for the following acid-base reactions.
 - HClO₄ (aq) + Mg(OH)₂ (s)
 - HCN (aq) + NaOH (aq)
 - CH₃COOH (aq) + KOH (aq)