**Science 1.8 AS 90947 Investigate selected chemical reactions**

Precipitation Reactions – Writing Word and Symbol Equations

**Success Criteria:** complete each level before moving onto the next

- Basic: write **word equations** for the following precipitation reactions
- Proficient: write **symbol equations** for the following precipitation reactions
- Advanced: **balance the symbol equations** for the following precipitation reactions

**Use your solubility rules to determine which product forms a precipitate and circle it**

1. sodium hydroxide solution and copper nitrate solution are mixed together.
   
   Word equation _____________________________________________________________
   
   Symbol equation __________________________________________________________

2. magnesium sulfate solution and sodium hydroxide solution are mixed together.

   Word equation _____________________________________________________________
   
   Symbol equation __________________________________________________________

3. sodium carbonate solution and silver nitrate solution are mixed together.

   Word equation _____________________________________________________________
   
   Symbol equation __________________________________________________________

4. calcium chloride solution and sodium sulfate solution are mixed together.

   Word equation _____________________________________________________________
   
   Symbol equation __________________________________________________________

5. lead nitrate solution and zinc chloride solution are mixed together.

   Word equation _____________________________________________________________
   
   Symbol equation __________________________________________________________

6. iron(II) nitrate solution and sodium hydroxide solution are mixed together.

   Word equation _____________________________________________________________
   
   Symbol equation __________________________________________________________