**Extension Worksheet - Precipitation Reactions**

For each of the precipitation reactions below write:

1. The word equation
2. The unbalanced chemical equation which must include the states of each compound
3. The balanced chemical equation

Remember:

All NITRATES are soluble

1. Silver nitrate and sodium hydroxide
2. Silver nitrate and potassium iodide
3. Silver nitrate and sodium chloride
4. Silver nitrate and potassium carbonate
5. Calcium nitrate and sodium hydroxide
6. Calcium nitrate and potassium iodide
7. Copper (II) sulfate and sodium hydroxide
8. Zinc nitrate and sodium hydroxide
9. Lead (II) nitrate and sodium hydroxide
10. Lead (II) nitrate and potassium iodide
11. Lead (II) nitrate and potassium carbonate
12. Iron (III) chloride and sodium hydroxide
13. Lead (III) chloride and sodium chloride
14. Copper sulfate and potassium carbonate

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| Table 1) Groups | Insoluble |
| Hydroxides, OH**-** | Silver hydroxide  Calcium hydroxide  Copper hydroxide  zinc hydroxide |
| Iodides, I**-** | Silver iodide |
| Chlorides, Cl**-** | Silver chloride |
| Carbonates, CO3**2-** | Silver carbonate  Calcium carbonate  Copper carbonate  Zinc carbonate |