

### Part I Magnesium

1. Magnesium reacts with oxygen.
2. Magnesium reacts with water.
3. Magnesium reacts with hydrochloric acid.
4. Magnesium reacts with copper (II) sulfate.
5. Magnesium reacts with silver nitrate.

### Part II Copper

1. Copper (II) sulfate reacts with lead nitrate.
2. Copper (II) sulfate reacts with sodium hydroxide.
3. Copper (II) sulfate reacts with ammonium hydroxide.
4. Copper (II) hydroxide is heated.
5. Copper (II) hydroxide reacts with Hydrochloric acid.
6. Copper (II) sulfate reacts with potassium iodide

### Part III: Hydrochloric acid

1. Solid sodium hydrogen carbonate reacts with hydrochloric acid.
2. sodium hydrogen carbonate solution reacts with hydrochloric acid. .
3. lead nitrate reacts with hydrochloric acid.
4. sodium hydroxide reacts with hydrochloric acid.
5. aqueous ammonia reacts with hydrochloric acid.

### Part IV: Miscellaneous

1. Solid sodium hydrogen carbonate is heated
2. Potassium iodide and lead nitrate.
3. Sodium hydroxide reacts with silver nitrate.
4. hydrochloric acid reacts with silver nitrate.
5. potassium iodide and silver nitrate react.
6. sodium hydroxide reacts with lead nitrate.
7. Sodium carbonate (NO hydrogen) reacts with silver nitrate
8. Silver carbonate reacts with ammonia.
9. Sodium carbonate reacts with copper (II) sulfate.
10. solid lead nitrate is heated (lead oxide and nitrogen dioxide gas is the product)