

Name: \_\_\_\_\_

**SCH 3U Balancing from Word Descriptions**

1. The synthesis reaction between magnesium oxide and water
2. The decomposition of sodium hydroxide to produce two compounds (i.e. not three elements)
3. The single replacement between magnesium and silver phosphate
4. The single replacement between chlorine gas and ammonium iodide
5. The double displacement between sodium sulphate and aluminum nitrate
6. The neutralization between calcium hydroxide and phosphoric acid (hint #1 - a neutralization reaction is double displacement the produces a salt and water (a.k.a. hydrogen hydroxide, hint #2 - phosphoric acid has the same formula as hydrogen phosphate)
7. The double displacement decomposition reaction between sodium bicarbonate and hydrochloric acid
8. The combustion of  $C_5H_{12}$
9. A reaction that produces lithium carbonate and auric nitrate
10. The decomposition reaction of ammonium chloride