1. Aluminum Nitride decomposes explosively to form Aluminum and nitrogen gas
2. Dinitrogen tetrahydride reacts with oxygen to produce nitrogen and water.
3. Lead (II) nitride reacts with sodium iodide to create lead (II) iodide and sodium nitride.
4. Phosphorous reacts with oxygen gas to produce diphosphorous pentoxide.
5. When calcium comes in contact with water, Ca(OH)2 and hydrogen gas is produced.
6. When hexane (C6H24) reacts with oxygen a combustion reaction occurs. This reaction produces carbon dioxide and water.
7. Mercury (II) oxide decomposes to produce mercury and oxygen.  
   Sulfur dioxide and oxygen combine to produce sulfur trioxide.
8. When chlorine gas reacts with methane, carbon tetrachloride and hydrogen chloride are produced.
9. When sodium oxide is added to water, sodium hydroxide is produced.
10. In a blast furnace, iron (III) oxide and carbon monoxide gas produce carbon dioxide gas and iron.
11. Iodine crystals react with chlorine gas to produce iodine dichloride.
12. potassium chloride combines silver (I) nitride to produce potassium nitride and silver (I) chloride
13. aluminum hydride combines sodium nitrate to produce aluminum nitrate and sodium hydride
14. iron metal and copper (II) sulfide yields iron (II)sulfide and copper metal
15. aluminum metal combines with copper (II) chloride yields aluminum chloride and copper metal
16. zinc metal reacting with oxygen gas forms zinc (II) oxide
17. chlorine gas combined with sodium metal produces sodium chloride
18. aluminum sulfide and barium chloride yield aluminum chloride and barium sulfide
19. sodium metal reacts with water to make sodium hydroxide and hydrogen gas
20. sodium chloride reacts with lead (II) nitrate to make lead (II) chloride and sodium nitride