

## Predict the Products Practice

Predict the products to write balanced chemical equations for each of the following. (Gold group complete 1-16)

1. Magnesium is burned in oxygen.
2. Zinc sulfide is heated in the presence of oxygen.
3. Nitrogen and hydrogen react to form ammonia (NH<sub>3</sub>).
4. Sulfur trioxide decomposes.
5. Silver reacts with oxygen.
6. Bromine reacts with potassium iodide.
7. Silver oxide decomposes.
8. Potassium bromide decomposes.
9. Potassium and nitrogen react together.
10. Calcium chloride reacts with sodium sulfide.
11. Magnesium oxide decomposes.
12. Aluminum is reacted with sulfur.
13. Aluminum is oxidized by oxygen.
14. Coal (assume C) is burned to produce heat.
15. Steel wool (Fe) is burned.
16. Aluminum reacts with fluorine.
17. Barium chloride reacts with sodium sulfate.
18. Iron and silver acetate react.
19. Magnesium hydroxide and calcium phosphate react.
20. Ammonium sulfide reacts with iron(II) nitrate.
21. Aluminum sulfate and calcium phosphate are reacted together.
22. Barium carbonate and hydrogen chloride react.

23. Silver acetate is mixed with potassium chromate.
24. Ammonium phosphate reacts with barium hydroxide.
25. Iron(III) bromide decomposes.
26. Silver and copper(II) nitrate react.
27. Potassium and zinc nitrate react.
28. Lead(II) sulfate and potassium iodide react.
29. Aluminum reacts with iron(III) oxide.
30. Lead(II) nitrate is reacted with sodium carbonate.
31. Lead(II) chloride is reacted with lithium sulfate.
32. Aluminum nitrate reacts with sodium hydroxide.
33. Aluminum and copper(II) chloride react.
34. Copper pipes react with chlorine in drinking water.