

CHEMICAL REACTIONS1

Write balanced equations for the following word equations and write the type of reactions.

1. potassium chloride + silver nitrate → potassium nitrate + silver chloride
2. aluminum hydroxide + sodium nitrate → aluminum nitrate + sodium hydroxide
3. iron metal + copper(II) sulfate → iron(II) sulfate + copper metal
4. aluminum metal + copper(II) chloride → aluminum chloride + copper metal
5. potassium bromide → potassium metal + bromine
6. calcium carbonate → calcium oxide + carbon dioxide gas
7. zinc metal + oxygen gas → zinc oxide
8. chlorine gas + sodium metal → sodium chloride
9. aluminum sulfate + barium chloride → aluminum chloride + barium sulfate
10. beryllium fluoride + magnesium → magnesium fluoride + beryllium
11. sodium hydrogen carbonate → sodium carbonate + carbon dioxide + water
12. zinc + hydrogen chloride → zinc chloride + hydrogen
13. copper(II) carbonate + hydrogen sulfate → copper(II) sulfate + water + carbon dioxide
14. magnesium oxide + hydrogen nitrate → magnesium nitrate + water
15. zinc + hydrogen sulfate → zinc sulfate + hydrogen
16. magnesium hydroxide + hydrogen chloride → magnesium chloride + water
17. copper(II) carbonate + hydrogen nitrate → copper(II) nitrate + water + carbon dioxide
18. zinc carbonate + hydrogen sulfate → zinc sulfate + water + carbon dioxide
19. iron + hydrogen chloride → iron(II) chloride + hydrogen
20. magnesium oxide + hydrogen chloride → magnesium chloride + water
21. calcium carbonate + hydrogen chloride → calcium chloride + water + carbon dioxide
22. magnesium + hydrogen sulfate → magnesium sulfate + hydrogen

23. magnesium + hydrogen nitrate → magnesium nitrate + hydrogen
24. zinc hydroxide + hydrogen chloride → zinc chloride + water
25. magnesium carbonate + hydrogen chloride → magnesium chloride + water + carbon dioxide
26. aluminum + hydrogen chloride → aluminum chloride + hydrogen
27. sodium hydroxide + hydrogen chloride → sodium chloride + water
28. sodium carbonate + hydrogen sulfate → sodium sulfate + water + carbon dioxide
29. calcium carbonate + hydrogen nitrate → calcium nitrate + water + carbon dioxide
30. iron + hydrogen sulfate → iron(II) sulfate + hydrogen
31. zinc oxide + hydrogen chloride → zinc chloride + water
32. copper(II) carbonate + hydrogen sulfate → copper(II) sulfate + water + carbon dioxide
33. aluminum + hydrogen sulfate → aluminum sulfate + hydrogen
34. calcium oxide + hydrogen chloride → calcium chloride + water
35. magnesium hydroxide + hydrogen sulfate → magnesium sulfate + water
36. ammonia + hydrogen sulfate → ammonium sulfate
37. ammonia + hydrogen chloride → ammonium chloride
38. zinc hydroxide + hydrogen sulfate → zinc sulfate + water
39. copper(II) oxide + hydrogen chloride → copper(II) chloride + water
40. sodium hydroxide + hydrogen sulfate → sodium sulfate + water
41. sodium hydrogen carbonate + hydrogen chloride → sodium chloride + water + carbon dioxide
42. ammonia + hydrogen nitrate → ammonium nitrate
43. calcium oxide + hydrogen chloride → calcium chloride + water
44. aluminum hydroxide + hydrogen nitrate → aluminum nitrate + water
45. calcium carbonate + hydrogen acetate → calcium acetate + water + carbon dioxide
46. hydrogen acetate + magnesium → magnesium acetate + hydrogen

47. hydrogen acetate+ magnesium oxide → magnesium acetate + water

48. sodium hydroxide + hydrogen acetate → sodium acetate + water

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