

Balancing Chemical Equations II

Name: _____

Convert each of the following word equations into formula form and then balance:

1. Aluminum + Oxygen yields Aluminum oxide.

2. Zinc + Sulfuric Acid yields Zinc sulfate + Hydrogen gas

3. Ammonium nitrite yields Nitrogen gas + Water

4. Iron + Water yields Iron (III) oxide + Hydrogen gas

5. Calcium oxide + Carbon yields Calcium carbide + Carbon monoxide

6. Ammonia + Oxygen yields Nitrogen monoxide + Water

7. Hydrochloric Acid + Calcium hydroxide yields Water + Calcium chloride

8. Calcium + Water yields Calcium hydroxide + Hydrogen gas

9. Aluminum oxide + Sulfuric Acid yields Water + Aluminum sulfate

10. Sodium + Water yields Sodium hydroxide + Hydrogen gas

11. Sodium hydroxide + Chlorine gas yields Sodium chloride + Sodium chlorate + Water

12. Calcium carbonate + Hydrochloric Acid yields Water + Carbon dioxide + Calcium chloride

13. Aluminum + Copper (II) nitrate yields Aluminum nitrate + Copper

14. Calcium hydroxide + Hydrochloric Acid yields Water + Calcium chloride

15. Iron (III) oxide + Carbon monoxide yields Carbon dioxide + Iron

16. Sulfur dioxide + Oxygen gas yields Sulfur trioxide

17. Copper + Sulfuric Acid yields Copper (II) sulfate + Water + Sulfur dioxide

18. Hydrogen gas + Oxygen gas yields Water

19. Nitrogen gas + Hydrogen gas yields Ammonia

20. Aluminum bromide + Chlorine gas yields Aluminum chloride + Bromine liquid

21. Iron + Lead (II) sulfate react to form Iron (II) sulfate + Lead

22. Potassium chlorate when heated produces Potassium chloride and Oxygen gas

23. Sulfuric Acid decomposes to form Sulfur trioxide gas and Water

24. Sodium oxide combines with Water to form Sodium hydroxide

25. Sodium phosphate and Calcium nitrate forms Sodium nitrate and Calcium phosphate

26. Ammonium carbonate + Magnesium sulfate yields Ammonium sulfate + Magnesium
Carbonate

27. Nitrogen gas plus Oxygen gas react to form Dinitrogen pentoxide
