**NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PERIOD\_\_\_\_\_\_\_**

**WRITING & BALANCING CHEMICAL EQUATIONS.**

*Directions:Write the words into a chemical equation and then balance the reaction.*

1. Potassium reacts with water yielding potassium hydroxide and hydrogen

2. Chlorine reacts with potassium bromide yielding potassium chloride and bromine

3. Zinc + hydrogen chloride yields zinc chloride and hydrogen

4. iron + water → Fe3O4 + hydrogen

5. zinc sulfide + oxygen → . zinc oxide + sulfur dioxide

7. Aluminum + sodium hydroxide → Na3AlO3 + hydrogen

9. Ammonia + oxygen → nitrogen monoxide + water

10. Phosphorus + iron(III) oxide → tetra-phosphorus decoxide + iron

11. Cupric sulfide + oxygen → copper(I) oxide + sulfur dioxide

12. sodium bicarbonate + hydrogen sulfate → sodium sulfate + water + carbon dioxide

13. Sodium carbonate + silver nitrate → sodium nitrate + silver carbonate

14. Calcium + oxygen → calcium oxide

15. Zinc + ferric oxide → zinc oxide + iron

16. Magnesium bromide + chlorine → magnesium chloride + bromine

17. Sodium + water → sodium hydroxide + hydrogen

18. Potassium nitrate → potassium nitrite + oxygen

19. Calcium oxide + hydrochloric acid → calcium chloride + water

20. Magnesium + oxygen → magnesium oxide

21. Iron + oxygen → iron(II) oxide

22. Water + dinitrogen trioxide → nitrous acid

23. Sodium oxide + water → sodium hydroxide

24. Iron(III) oxide + carbon monoxide → iron + carbon dioxide

25. Methane (CH4) + oxygen → carbon dioxide + water