

Chemical Equations

Color Key: W=White B=Blue G=Green Y=Yellow R=Red

1. $__ W + __ B_2 \rightarrow __ W_3B_2$
2. $__ GBY_3 \rightarrow __ GB + __ Y_2$
3. $__ BW_4 + __ R_2 \rightarrow __ BR_2 + __ W_2R$
4. $__ Y + __ R_2W \rightarrow __ YWR + __ R_2$
5. $__ Y_2 + __ B_2 \rightarrow __ YB_3$
6. $__ GR_2 + __ B_2Y \rightarrow __ BR + __ GY$
7. $__ B + __ G_2 \rightarrow __ B_3G$
8. $__ R_2Y + __ B_2 \rightarrow __ Y_2 + __ RB$
9. $__ G + __ WY \rightarrow __ GY_2 + __ W_2$
10. $__ R + __ Y_2 \rightarrow __ RY_3$
11. $__ G(WY_3)_2 + __ BYR \rightarrow __ G(YR)_2 + __ BWY_3$
12. $__ W_2Y_2 \rightarrow __ W_2 + __ Y_2$
13. $__ GW_2 + __ B_2R \rightarrow __ BW + __ GR$
14. $__ R + __ W_2 \rightarrow __ R_3W_2$
15. $__ BYR_4 + __ W \rightarrow __ B + __ WYR_4$
16. $__ YW_2 + __ BR \rightarrow __ YR_2 + __ B_2W + __ R_2$
17. $__ R_2 + __ B_2 \rightarrow __ B_2R_4$
18. $__ WB + __ GYR_3 \rightarrow __ GB_2 + __ YR_2 + __ W_2R$
19. $__ BW \rightarrow __ B + __ W_2$
20. $__ RW_2 \rightarrow __ R + __ W_2$

Chemical Equations

Answer Key:

1. $3W + B_2 \rightarrow W_3B_2$
2. $2GBY_3 \rightarrow 2GB + 3Y_2$
3. $BW_4 + 2R_2 \rightarrow BR_2 + 2W_2R$
4. $2Y + 2R_2W \rightarrow 2YWR + R_2$
5. $Y_2 + 3B_2 \rightarrow 2YB_3$
6. $GR_2 + B_2Y \rightarrow 2BR + GY$
7. $6B + G_2 \rightarrow 2B_3G$
8. $2R_2Y + 2B_2 \rightarrow Y_2 + 4RB$
9. $G + 2WY \rightarrow GY_2 + W_2$
10. $2R + 3Y_2 \rightarrow 2RY_3$
11. $G(WY_3)_2 + 2BYR \rightarrow G(YR)_2 + 2BWY_3$
12. $W_2Y_2 \rightarrow W_2 + Y_2$
13. $GW_2 + B_2R \rightarrow 2BW + GR$
14. $3R + W_2 \rightarrow R_3W_2$
15. $BYR_4 + W \rightarrow B + WYR_4$
16. $YW_2 + 4BR \rightarrow YR_2 + 2B_2W + R_2$
17. $2R_2 + B_2 \rightarrow B_2R_4$
18. $2WB + GYR_3 \rightarrow GB_2 + YR_2 + W_2R$
19. $2BW \rightarrow 2B + W_2$
20. $RW_2 \rightarrow R + W_2$

Chemical Equations

Real World Chemical Equations:

1. $__ \text{N}_2 + __ \text{H}_2 \rightarrow __ \text{NH}_3$
2. $__ \text{KClO}_3 \rightarrow __ \text{KCl} + __ \text{O}_2$
3. $__ \text{NaCl} + __ \text{F}_2 \rightarrow __ \text{NaF} + __ \text{Cl}_2$
4. $__ \text{H}_2 + __ \text{O}_2 \rightarrow __ \text{H}_2\text{O}$
5. $__ \text{CH}_4 + __ \text{O}_2 \rightarrow __ \text{CO}_2 + __ \text{H}_2\text{O}$

Answer Key:

1. $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$
2. $2\text{KClO}_3 \rightarrow 2\text{KCl} + 3\text{O}_2$
3. $2\text{NaCl} + \text{F}_2 \rightarrow 2\text{NaF} + \text{Cl}_2$
4. $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$
5. $\text{CH}_4 + 2\text{O}_2 \rightarrow \text{CO}_2 + 2\text{H}_2\text{O}$