**Balancing Chemical Equations Worksheet**

Balance the following equations in the space provided. Remember that only coefficients (the number in front of the chemical formula) can be changed

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. | Ca | + | O2 | --> | CaO |  |  |  |  |
| 2. | CH4 | + | Cl2 | --> | CCl4 | + | HCl |  |  |
| 3. | NO | + | O2 | --> | NO2 |  |  |  |  |
| 4. | KOH | + | H2(SO4) | --> | K2SO4 | + | H2O |  |  |
| 5. | CH4 | + | O2 | --> | CO2 | + | H2O |  |  |
| 6. | Al(OH)3 | + | H2(SO4) | --> | Al2(SO4)3 | + | H2O |  |  |
| 7. | Ca(NO3)2 | + | Na2(CO3) | --> | CaCO3 | + | NaNO3 |  |  |
| 8. | Na | + | O2 | --> | Na2O |  |  |  |  |
| 9. | K | + | Cl2 | --> | KCl |  |  |  |  |
| 10. | Al | + | Br2 | --> | AlBr3 |  |  |  |  |
| 11. | Li | + | S | --> | Li2S |  |  |  |  |
| 12. | Mg | + | N2 | --> | Mg3N2 |  |  |  |  |
| 13. | Na | + | H2O | --> | NaOH | + | H2 |  |  |
| 14. |  |  | O3 | --> | O2 |  |  |  |  |
| 15. |  |  | Al2O3 | --> | Al | + | O2 |  |  |
| 16. | P4 | + | O2 | --> | P4O10 |  |  |  |  |
| 17. | FeS2 | + | O2 | --> | Fe2O3 | + | SO2 |  |  |
| 18. | Mg | + | HCl | --> | MgCl2 | + | H2 |  |  |
| 19. | Al | + | CuSO4 | --> | Al2(SO4)3 | + | Cu |  |  |
| 20. | Fe | + | CrNO3 | --> | Fe(NO3)2 | + | Cr |  |  |
| 21. |  |  | KClO3 | --> | KCl | + | O2 |  |  |
| 22. |  |  | SbH3 | --> | Sb | + | H2 |  |  |
| 23. | (NH4)2SO4 | + | Al(NO3)3 | --> | Al2(SO4)3 | + | NH4NO3 |  |  |
| 24. | Mg | + | H3PO4 | --> | Mg3(PO4)2 | + | H2 |  |  |
| 25. | Ca(OH)2 | + | H3AsO4 | --> | H2O | + | Ca3(AsO4)2 |  |  |
| 26. | FeCl3 | + | (NH4)2S | --> | Fe2S3 | + | NH4Cl |  |  |
| 27. |  |  | Cu(NO3)2 | --> | CuO | + | NO2 | + | O2 |