

Now try your hand at balancing these equations:

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|-----|-------------------------------------|--------------------------------|-----|---------------------------|--------------------------------|
| 11) | Al + S >>> | Al ₂ S | 12) | Ag + I ₂ >>>> | AgI |
| 13) | Zn + O ₂ >>> | ZnO | 14) | Pb + O ₂ >>>> | PbO |
| 15) | Mg + Cl ₂ >>> | MgCl ₂ | 16) | Al + Br ₂ >>>> | AlBr ₃ |
| 17) | Al + O ₂ >>> | Al ₂ O ₃ | 18) | Fe + F ₂ >>>> | FeF ₃ |
| 19) | P + O ₂ >>> | P ₄ O ₁₀ | 20) | Sn + O ₂ >>>> | SnO |
| 21) | Bi + Cl ₂ >>> | BiCl ₃ | 22) | Sb + S >>>> | Sb ₂ S ₃ |
| 23) | H ₂ + N ₂ >>> | NH ₃ | 24) | Ca + O ₂ >>>> | CaO |
| 25) | Cu + O ₂ >>> | Cu ₂ O | 26) | Ba + O ₂ >>>> | BaO |
| 27) | Sn + Cl ₂ >>> | SnCl ₄ | 28) | Mg + P >>>> | Mg ₃ P ₂ |
| 29) | Na + S >>> | Na ₂ S | 30) | K + N ₂ >>>> | K ₃ N |

These next are different because they have more than one product on the right hand side. The same rules still apply: there must be an equal number of each type of atom on both sides.

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|-----|-----------------------------------|------------------------------------|---------------------------------------------------|---------------------|
| 31) | Zn + | HCl >>> | ZnCl ₂ + | H ₂ |
| 32) | Al + | HCl >>> | AlCl ₃ + | H ₂ |
| 33) | Cl ₂ + | AlI ₃ >>> | AlCl ₃ + | I ₂ |
| 34) | Br ₂ + | CuI >>> | CuBr + | I ₂ |
| 35) | Na ₂ CO ₃ + | CaCl ₂ >>> | CaCO ₃ + | NaCl |
| 36) | Cu + | AgNO ₃ >>>> | Cu(NO ₃) ₂ + | Ag |
| 37) | Mg(OH) ₂ + | H ₂ SO ₄ >>> | Mg ₂ SO ₄ + | H ₂ O |
| 38) | NaOH + | CuSO ₄ >>> | Na ₂ SO ₄ + | Cu(OH) ₂ |
| 39) | NH ₄ OH + | FeCl ₃ >>> | NH ₄ Cl + | Fe(OH) ₃ |
| 40) | Mg + | H ₃ PO ₄ >>> | Mg ₃ (PO ₄) ₂ + | H ₂ |