

## Balancing Equations Worksheet – Answers

**Note to students: It is acceptable to leave spaces blank when balancing equations – blank spaces are interpreted as containing the number “1”.**

- 1)  $\text{Na}_3\text{PO}_4 + 3 \text{KOH} \rightarrow 3 \text{NaOH} + \text{K}_3\text{PO}_4$
- 2)  $\text{MgF}_2 + \text{Li}_2\text{CO}_3 \rightarrow \text{MgCO}_3 + 2 \text{LiF}$
- 3)  $\text{P}_4 + 3 \text{O}_2 \rightarrow 2 \text{P}_2\text{O}_3$
- 4)  $2 \text{RbNO}_3 + \text{BeF}_2 \rightarrow \text{Be}(\text{NO}_3)_2 + 2 \text{RbF}$
- 5)  $2 \text{AgNO}_3 + \text{Cu} \rightarrow \text{Cu}(\text{NO}_3)_2 + 2 \text{Ag}$
- 6)  $\text{CF}_4 + 2 \text{Br}_2 \rightarrow \text{CBr}_4 + 2 \text{F}_2$
- 7)  $2 \text{HCN} + \text{CuSO}_4 \rightarrow \text{H}_2\text{SO}_4 + \text{Cu}(\text{CN})_2$
- 8)  $\text{GaF}_3 + 3 \text{Cs} \rightarrow 3 \text{CsF} + \text{Ga}$
- 9)  $\text{BaS} + \text{PtF}_2 \rightarrow \text{BaF}_2 + \text{PtS}$  (already balanced)
- 10)  $\text{N}_2 + 3 \text{H}_2 \rightarrow 2 \text{NH}_3$
- 11)  $2 \text{NaF} + \text{Br}_2 \rightarrow 2 \text{NaBr} + \text{F}_2$
- 12)  $\text{Pb}(\text{OH})_2 + 2 \text{HCl} \rightarrow 2 \text{H}_2\text{O} + \text{PbCl}_2$
- 13)  $2 \text{AlBr}_3 + 3 \text{K}_2\text{SO}_4 \rightarrow 6 \text{KBr} + \text{Al}_2(\text{SO}_4)_3$
- 14)  $\text{CH}_4 + 2 \text{O}_2 \rightarrow \text{CO}_2 + 2 \text{H}_2\text{O}$
- 15)  $2 \text{Na}_3\text{PO}_4 + 3 \text{CaCl}_2 \rightarrow 6 \text{NaCl} + \text{Ca}_3(\text{PO}_4)_2$
- 16)  $2 \text{K} + \text{Cl}_2 \rightarrow 2 \text{KCl}$
- 17)  $2 \text{Al} + 6 \text{HCl} \rightarrow 3 \text{H}_2 + 2 \text{AlCl}_3$
- 18)  $\text{N}_2 + 3 \text{F}_2 \rightarrow 2 \text{NF}_3$
- 19)  $\text{SO}_2 + 2 \text{Li}_2\text{Se} \rightarrow \text{SSe}_2 + 2 \text{Li}_2\text{O}$
- 20)  $2 \text{NH}_3 + \text{H}_2\text{SO}_4 \rightarrow (\text{NH}_4)_2\text{SO}_4$