

Chapter 6 Review

- a) neutralization
- b) synthesis
- c) synthesis
- d) decomposition
- e) neutralization
- f) double replacement
- g) single replacement
- h) single replacement
- i) double replacement
- j) combustion

- 3a) decomposition
- b) synthesis
- c) neutralization
- d) single replacement
- e) combustion
- f) double replacement or neutralization
- g) single replacement or combustion

- 5a) $4\text{Li} + \text{O}_2 \rightarrow 2\text{Li}_2\text{O}$ synthesis
- b) $3\text{Mg} + 2\text{AlCl}_3 \rightarrow 3\text{MgCl}_2 + 2\text{Al}$ single replacement
- c) $2\text{C}_4\text{H}_{10} + 13\text{O}_2 \rightarrow 8\text{CO}_2 + 10\text{H}_2\text{O}$ combustion
- d) $1\text{HCl} + 1\text{LiOH} \rightarrow 1\text{LiCl} + 1\text{H}_2\text{O}$ neutralization
- e) $2\text{Al}_2\text{O}_3 \rightarrow 4\text{Al} + 3\text{O}_2$ decomposition
- f) $3\text{Sn} + 4\text{Au}(\text{NO}_3)_3 \rightarrow 3\text{Sn}(\text{NO}_3)_4 + 4\text{Au}$ single replacement
- g) $2\text{Ba}(\text{OH})_2 + 1\text{PbBr}_4 \rightarrow 2\text{BaBr}_2 + 1\text{Pb}(\text{OH})_4$ double replacement
- h) $2\text{C}_3\text{H}_8\text{O}_3 + 7\text{O}_2 \rightarrow 6\text{CO}_2 + 8\text{H}_2\text{O}$ combustion
- i) $1\text{N}_2 + 2\text{O}_2 \rightarrow 2\text{NO}_2$ synthesis