



Chem!stry

Name: ()

Class:

Date: / /

Balancing Chemical Equations – Intermediate

• Balance each of the following chemical equations:

- a) $\text{Mg} + \text{HCl} \rightarrow \text{MgCl}_2 + \text{H}_2$
- b) $\text{K} + \text{Br}_2 \rightarrow \text{KBr}$
- c) $\text{Na} + \text{H}_2\text{O} \rightarrow \text{NaOH} + \text{H}_2$
- d) $\text{Ca} + \text{O}_2 \rightarrow \text{CaO}$
- e) $\text{Na} + \text{O}_2 \rightarrow \text{Na}_2\text{O}$
- f) $\text{Ca}(\text{NO}_3)_2 + \text{NaOH} \rightarrow \text{Ca}(\text{OH})_2 + \text{NaNO}_3$
- g) $\text{CuSO}_4 + \text{NaOH} \rightarrow \text{Cu}(\text{OH})_2 + \text{Na}_2\text{SO}_4$
- h) $\text{Ca} + \text{H}_2\text{O} \rightarrow \text{Ca}(\text{OH})_2 + \text{H}_2$
- i) $\text{FeCl}_3 + \text{NaOH} \rightarrow \text{Fe}(\text{OH})_3 + \text{NaCl}$
- j) $\text{Na}_2\text{CO}_3 + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O} + \text{CO}_2$

• Balance each of the following chemical equations:

- a) calcium carbonate \rightarrow calcium oxide + carbon dioxide

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- b) hydrogen + chlorine \rightarrow hydrogen chloride

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- c) zinc + hydrochloric acid \rightarrow zinc chloride + hydrogen

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- d) copper(II) oxide + carbon \rightarrow copper + carbon dioxide

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- e) aluminium + oxygen \rightarrow aluminium oxide

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- Scan the QR code below for the answers to this assignment.



http://www.chemist.sg/formulae_equations/balance_equ_2_ans.pdf