

# Answers

## Chapter 1

### Exercises

- 1 (a)  $\text{CuCO}_3 \rightarrow \text{CuO} + \text{CO}_2$   
 (b)  $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$   
 (c)  $\text{H}_2\text{SO}_4 + 2\text{NaOH} \rightarrow \text{Na}_2\text{SO}_4 + 2\text{H}_2\text{O}$   
 (d)  $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$   
 (e)  $\text{CH}_4 + 2\text{O}_2 \rightarrow \text{CO}_2 + 2\text{H}_2\text{O}$
- 2 (a)  $2\text{K} + 2\text{H}_2\text{O} \rightarrow 2\text{KOH} + \text{H}_2$   
 (b)  $\text{CH}_4 + 3\text{O}_2 \rightarrow \text{CO}_2 + 2\text{H}_2\text{O}$   
 (c)  $2\text{H}_2 \rightarrow 2\text{H}_2$   
 (d)  $2\text{CO} + \text{O}_2 \rightarrow 2\text{CO}_2$   
 (e)  $2\text{Fe} + 3\text{Cl}_2 \rightarrow 2\text{FeCl}_3$
- 3 (a)  $2\text{C}_2\text{H}_6 + 7\text{O}_2 \rightarrow 4\text{CO}_2 + 6\text{H}_2\text{O}$   
 (b)  $4\text{H}_2 + 5\text{O}_2 \rightarrow 4\text{H}_2\text{O}$   
 (c)  $3\text{Cu} + 8\text{HNO}_3 \rightarrow 3\text{Cu}(\text{NO}_3)_2 + 2\text{NO} + 4\text{H}_2\text{O}$   
 (d)  $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$   
 (e)  $4\text{H}^+ + 15\text{O}^{2-} \rightarrow 8\text{O}_2 + 14\text{H}_2\text{O} + 2\text{N}_2$
- 4 (a) Sand and water: heterogeneous  
 (b) Sugar and water: homogeneous  
 (c) Sand and iron filings: heterogeneous  
 (d) Ethanol and water: homogeneous  
 (e) Steel: homogeneous
- 5 (a)  $2\text{KNO}_3(\text{s}) \rightarrow 2\text{KNO}_2(\text{s}) + \text{O}_2(\text{g})$   
 (b)  $\text{CaO}(\text{s}) + \text{H}_2\text{SO}_4(\text{aq}) \rightarrow \text{CaSO}_4(\text{s}) + \text{H}_2\text{O}(\text{l})$   
 (c)  $2\text{H}_2\text{O}(\text{l}) \rightarrow 2\text{H}_2(\text{g}) + \text{O}_2(\text{g})$   
 (d)  $\text{Pb}(\text{NO}_3)_2(\text{s}) + 2\text{NaCl}(\text{aq}) \rightarrow \text{PbCl}_2(\text{s}) + 2\text{NaNO}_3(\text{aq})$   
 (e)  $2\text{C}_2\text{H}_6(\text{g}) + 7\text{O}_2(\text{g}) \rightarrow 4\text{CO}_2(\text{g}) + 6\text{H}_2\text{O}(\text{l})$

In the answers, exercises and text there is inconsistency about whether the water formed in combustion reactions is gas or liquid. At room temperature it will ultimately finish up as a liquid, as shown here.

- 6 X has diffused more quickly, so it must be a lighter gas. Its particles have greater velocity than the particles of Y at the same temperature. (Note though that they will both have the same value for average kinetic energy.)
- 7 From the kinetic molecular theory we would expect a solid to be more dense than its liquid, and therefore that ice would sink in water.
- 8 Bubbles will be present through the volume of the liquid. A brown gas is visible above the brown liquid. As the two states are at the same temperature, the particles have the same average kinetic energy and are moving at the same speed. The inter-particle distances in the gas are significantly larger than those in the liquid.
- 9 At certain conditions of low temperature and low humidity, snow changes directly to water vapour by sublimation, without going through the liquid phase.
- 10 Steam will condense on the skin, releasing energy as it forms liquid at the same temperature (E-D on Figure 1.4). This is additional to the energy released when both the boiling water and the condensed steam cool on the surface of the skin.
- 11 B
- 12 AW 01\_EX\_12

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**Rex M. Heyworth**



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