# Answers

# Chapter 1

#### Exercises

- (a) CuCO<sub>2</sub> → CuO + CO<sub>2</sub>
  - (b) 2Mg + O<sub>5</sub> → 2MgO
  - (c) H,SO, + 2NaOH -+ Na,SO, + 2H,O
  - (d) N<sub>s</sub> + 3H<sub>s</sub> → 2NH<sub>s</sub>
  - (e) CH<sub>4</sub> + 2O<sub>2</sub> → CO<sub>2</sub> + 2H<sub>2</sub>O
- 2 (a) 2K + 2H,O → 2KOH + H,
  - (b) C,H,OH + 3O, → 2CO, + 3H,O
  - (c) Cl, + 2KI → 2KCI + 1,
  - (d) 4CrO, → 2Cr,O, + 3O,
  - (e) Fe<sub>3</sub>O<sub>5</sub> + 3C → 3CO + 2Fe
- 3 (a) 2C<sub>4</sub>H<sub>10</sub> + 13O<sub>2</sub> → 8CO<sub>2</sub> + 10H<sub>2</sub>O
  - (b) 4NH<sub>2</sub> + 5O<sub>2</sub> → 4NO + 6H<sub>2</sub>O
  - (c) 3Cu + 8HNO<sub>5</sub> → 3Cu(NO<sub>5</sub>)<sub>2</sub> + 2NO + 4H<sub>2</sub>O
  - (d) 6H,O, + 2N,H, → 2N, + 10H,O + O,
  - (e) 4C<sub>2</sub>H<sub>2</sub>N + 15O<sub>2</sub> → 8CO<sub>2</sub> + 14H<sub>2</sub>O + 2N<sub>2</sub>
- 4 (a) Sand and water: heterogeneous
  - (b) Smoke: heterogeneous
  - (c) Sugar and water: homogeneous
  - (d) Salt and iron filings; heterogeneous
  - (e) Ethanol and water: homogeneous
  - (f) Steel: homogeneous
- 5 (a) 2KNO<sub>3</sub>(s) → 2KNO<sub>3</sub>(s) + O<sub>3</sub>(g)
  - (b) CaCO₂(s) + H₂SO₂(aq) → CaSO₂(s) + CO₂(g) + H₂O(l)
  - (c)  $2\text{Li}(s) + 2\text{H}_{y}\text{O}(t) \rightarrow 2\text{LiOH}(aq) + \text{H}_{y}(q)$
  - (d) Pb(NO<sub>J</sub>(aq) + 2NaCl(aq) → PbCl<sub>J</sub>(s) + 2NaNO<sub>J</sub>(aq)
  - (e) 2C<sub>2</sub>H<sub>2</sub>(g) + 9O<sub>2</sub>(g) → 6CO<sub>2</sub>(g) + 6H<sub>2</sub>O(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.
- 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 8
- 12 AW 01\_EX\_12

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#### **Pearson Chemistry Workbook Answers Chapter 3:**

Chemistry: The Central Science Theodore L. Brown, H. Eugene LeMay Jr., Bruce E. Bursten, Catherine Murphy, Patrick Woodward, Steven Langford, Dalius Sagatys, Adrian George, 2013-10-04 If you think you know the Brown LeMay Bursten Chemistry text think again In response to market request we have created the third Australian edition of the US bestseller Chemistry The Central Science An extensive revision has taken this text to new heights Triple checked for scientific accuracy and consistency this edition is a more seamless and cohesive product yet retains the clarity innovative pedagogy functional problem solving and visuals of the previous version All artwork and images are now consistent in quality across the entire text And with a more traditional and logical organisation of the Organic Chemistry content this comprehensive text is the source of all the information and practice problems students are likely to need for conceptual understanding development of problem solving skills reference and test preparation The Burning Answer Keith Barnham, 2015-05-15 Our society faces a choice We could be enjoying a sustainable lifestyle but we have chosen not to In three generations we have consumed half the oil produced by photosynthesis over eight million generations In two generations we have used half our uranium resources With threats from global warming oil depletion and nuclear disaster we are running out of options Solar power as Keith Barnham says is our necessary solution Barnham explains that the roots of solar energy lie in a little known equation E hf an equation which was coincidentally celebrated and explained to the world by Einstein in the same year he discovered E mc2 He alleges that the former equation has been overlooked in favor of the latter much to our detriment and Barnham is here to offer us a solution We can still turn things around and solar energy is the key In this provocative inspiring passionately argued book Keith Barnham outlines actions that any one and all of us can take to make an impact now and on future generations The Burning Answer is a solar manifesto for the new climate aware generation and a must read for climate change skeptics Family Nurse Practitioner Certification Review - E-Book JoAnn Zerwekh, Jo Carol Claborn, 2016-09-01 Ensure that you re thoroughly prepared for the Family Nurse Practitioner FNP certification exam with more than 1 500 questions Family Nurse Practitioner Certification Review 3rd Edition reflects the latest evidence based clinical practice and national treatment guidelines and protocols This comprehensive resource features more than 1 500 high quality multiple choice questions with detailed rationales for correct answers Questions related to patient safety are highlighted with a QSEN safety icon to highlight the graduate level safety competency of the Quality Safety Education for Nurses initiative It also includes a companion Evolve website with virtually unlimited randomly generated practice exams that match the length and question distribution of the actual AANP and ANCC FNP certification exams More than 1 500 multiple choice questions with by detailed rationales help students understand the reasoning behind each answer Division of clinical chapters into Physical Examination and Diagnostic Tests Disorders and Pharmacology makes it easy for students to locate specific information within each system Chapters on Research and Theory and Professional Issues provide information

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core challenges of naming and addressing along with results from upper layer architecture All of this in Day's deft hands comes together in a tour de force of elegance and simplicity with the annoying turn of events that the answer has been staring us in the face Operating systems tell us even more about networking than we thought The result is in essence the first unified theory of networking and leads to a simpler more powerful and above all more scalable network infrastructure. The book then lays the groundwork for how to exploit the result in the design development and management as we move beyond the limitations of the Internet Gaither's Dictionary of Scientific Quotations Carl C. Gaither, Alma E. Cavazos-Gaither, 2012-01-05 This unprecedented collection of 27 000 quotations is the most comprehensive and carefully researched of its kind covering all fields of science and mathematics. With this vast compendium you can readily conceptualize and embrace the written images of scientists laymen politicians novelists playwrights and poets about humankind's scientific achievements Approximately 9000 high quality entries have been added to this new edition to provide a rich selection of quotations for the student the educator and the scientist who would like to introduce a presentation with a relevant quotation that provides perspective and historical background on his subject Gaither's Dictionary of Scientific Quotations Second Edition provides the finest reference source of science quotations for all audiences. The new edition adds greater depth to the number of quotations in the various thematic arrangements and also provides new thematic categories

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