

## Energy and Chemical Change

### Section 15.1 Energy

pages 516–522

#### Practice Problems

pages 519–521

1. A fruit and oatmeal bar contains 142 nutritional Calories. Convert this energy to calories.

$$142 \text{ Calories} = 142 \text{ kcal}$$

$$142 \text{ kcal} \times \frac{1000 \text{ cal}}{1 \text{ kcal}} = 142,000 \text{ cal}$$

2. An exothermic reaction releases 86.5 kJ. How many kilocalories of energy are released?

$$86.5 \text{ kJ} \times \frac{1 \text{ kcal}}{4.184 \text{ kJ}} = 20.7 \text{ kcal}$$

3. **Challenge** Define a new energy unit, named after yourself, with a magnitude of one-tenth of a calorie. What conversion factors relate this new unit to joules? To Calories?

$$\text{Unit X} = 0.1 \text{ cal}$$

$$1 \text{ cal} = 4.184 \text{ J}$$

$$\text{X} = (0.1 \text{ cal})(4.184 \text{ J/cal}) = 0.4184 \text{ J}$$

$$1 \text{ cal} = 0.001 \text{ Calorie}$$

$$\text{X} = (0.1 \text{ cal})(1 \text{ Cal}/1000 \text{ cal}) = 0.0001 \text{ Calorie}$$

4. If the temperature of 34.4 g of ethanol increases from 25.0°C to 78.8°C, how much heat has been absorbed by the ethanol? Refer to Table 15.2.

$$q = c \times m \times \Delta T$$

$$q = 2.44 \text{ J/(g}\cdot\text{°C)} \times 34.4 \text{ g} \times 53.8\text{°C} = 4.52 \times 10^3 \text{ J}$$

5. A 155-g sample of an unknown substance was heated from 25.0°C to 40.0°C. In the process, the substance absorbed 5696 J of energy. What is the specific heat of the substance? Identify the substance among those listed in Table 15.2 on page 520.

$$q = c \times m \times \Delta T$$

$$c = \frac{q}{m\Delta T} = \frac{(5696 \text{ J})}{(155 \text{ g})(40.0 - 25.0\text{°C})} = 2.45 \text{ J/(g}\cdot\text{°C)}$$

The specific heat is very close to the value for ethanol.

6. **Challenge** A 4.50-g nugget of pure gold absorbed 276 J of heat. The initial temperature was 25.0°C. What was the final temperature?

$$q = c \times m \times \Delta T$$

$$\Delta T = \frac{q}{cm} = \frac{(276 \text{ J})}{(0.129 \text{ J/g}\cdot\text{°C})(4.50 \text{ g})} = 475\text{°C}$$

$$\Delta T = T_f - T_i = T_f - 25.0\text{°C} = 475\text{°C}$$

$$T_f = 5.00 \times 10^2\text{°C}$$

### Section 15.1 Assessment

page 522

7. **Explain** how energy changes from one form to another in an exothermic reaction. In an endothermic reaction.

Chemical potential energy changes to heat in exothermic reactions and the heat is released. In endothermic reactions, heat is absorbed and changed to chemical potential energy.

8. **Distinguish** between kinetic and potential energy in the following examples: two separated magnets; an avalanche of snow; books on library shelves; a mountain stream; a stock-car race; separation of charge in a battery.

Two separated magnets illustrate potential energy. In a snow avalanche, positional potential energy is changing to kinetic energy. Books on a shelf illustrate positional potential energy. As water races down a mountain stream, positional potential energy is changing to kinetic energy. In a stock-car race, chemical potential energy is being changed to kinetic energy. The separation of charge in a battery illustrates electrical potential energy.

9. **Explain** how the light and heat of a burning candle are related to chemical potential energy.

Chemical potential energy, contained in the candle, is changed to energy in the form of light and heat and released as the chemical combustion reaction takes place.

# Chemistry Matter And Change Chapter 3 Study Guide Answer Key

**R Barnett**



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### **Table of Contents Chemistry Matter And Change Chapter 3 Study Guide Answer Key**

1. Understanding the eBook Chemistry Matter And Change Chapter 3 Study Guide Answer Key
  - The Rise of Digital Reading Chemistry Matter And Change Chapter 3 Study Guide Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry Matter And Change Chapter 3 Study Guide Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chemistry Matter And Change Chapter 3 Study Guide Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry Matter And Change Chapter 3 Study Guide Answer Key
  - Personalized Recommendations
  - Chemistry Matter And Change Chapter 3 Study Guide Answer Key User Reviews and Ratings
  - Chemistry Matter And Change Chapter 3 Study Guide Answer Key and Bestseller Lists
5. Accessing Chemistry Matter And Change Chapter 3 Study Guide Answer Key Free and Paid eBooks
  - Chemistry Matter And Change Chapter 3 Study Guide Answer Key Public Domain eBooks
  - Chemistry Matter And Change Chapter 3 Study Guide Answer Key eBook Subscription Services

- Chemistry Matter And Change Chapter 3 Study Guide Answer Key Budget-Friendly Options
- 6. Navigating Chemistry Matter And Change Chapter 3 Study Guide Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Chemistry Matter And Change Chapter 3 Study Guide Answer Key Compatibility with Devices
  - Chemistry Matter And Change Chapter 3 Study Guide Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chemistry Matter And Change Chapter 3 Study Guide Answer Key
  - Highlighting and Note-Taking Chemistry Matter And Change Chapter 3 Study Guide Answer Key
  - Interactive Elements Chemistry Matter And Change Chapter 3 Study Guide Answer Key
- 8. Staying Engaged with Chemistry Matter And Change Chapter 3 Study Guide Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chemistry Matter And Change Chapter 3 Study Guide Answer Key
- 9. Balancing eBooks and Physical Books Chemistry Matter And Change Chapter 3 Study Guide Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chemistry Matter And Change Chapter 3 Study Guide Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chemistry Matter And Change Chapter 3 Study Guide Answer Key
  - Setting Reading Goals Chemistry Matter And Change Chapter 3 Study Guide Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chemistry Matter And Change Chapter 3 Study Guide Answer Key
  - Fact-Checking eBook Content of Chemistry Matter And Change Chapter 3 Study Guide Answer Key
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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June 2015 (v3) MS - Paper 4 CIE Geography IGCSE Gas leaks due to poor pipes. Open fires for cooking. Lack of regulations to prevent fire. Flooding: Houses often built on floodplain / lowland / near river ... geography p1 2015 memorandum This memorandum consists of 13 pages. Page 2. Geography/P1. 2. DBE/2015. SCE - Memorandum. G10 Exam May - GEOGRAPHY FOR 2023 & BEYOND IGCSE Geography Revision Sessions Feb -Apr 2023. In the lead-up to the examinations, your teacher will run a series of after school revision sessions focusing ... [UPDATED] IGCSE Past Year Papers (2023) Geography (0460)/2015 May June/. [UPDATED] IGCSE Past Year Exam Papers (2023) with marking scheme and specimen papers up to 2025. Subject available: English ... Geography (2015) Jun 17, 2019 — As you may know, on the morning of 14 June, we confirmed that blacked out images of two exam questions from our A level Maths Paper 3 on ... Edexcel GCSE Geography Past Papers Here you will find Edexcel GCSE Geography Past Papers and exam solutions. Use the Edexcel Geography past papers as part of your revision. AQA GCSE Geography Case study guide and revision materials. Paper 1: Living with the physical environment (1 hour 30mins). Tuesday 21 st. The Fabric of Peace in Africa: Looking beyond the State 2004 us national chemistry olympiad - local section exam Local Sections may use an answer sheet of their own choice. The full examination consists of 60 multiple-choice questions representing a fairly wide range of ... 2004 U. S. NATIONAL CHEMISTRY OLYMPIAD Part I of this test is designed to be taken with a Scantron® answer sheet on which the student records his or her responses. Only this. Scantron sheet is graded ... Organic-Chemistry-ACS-sample-Questions.pdf ACS Examination guide (Selected Questions). Organic Chemistry. Nomenclature. 1. What is the IUPAC names for this compound? a) 1-tert-butyl-2-butanol b) 5,5 ... National Norms | ACS Exams High School Exams · General Chemistry Exams · General Organic Biochemistry Exams · Analytical Chemistry Exams · Organic Chemistry Exams · Physical Chemistry Exams ... ACS Exams Questions: 70. Time: 110. Stock Code: OR16. Title: 2016 Organic Chemistry Exam - Exam for two-semester Organic Chemistry. Norm: View PDF. Questions: 70. Time: ... Acs Review 2004 | PDF Acs Review 2004 - Free ebook download as PDF File (.pdf) or read book online for free. Organic Chemistry 2004 ACS. ACS Exam Review 2004-4-23-21 - YouTube ACS Organic Chemistry I Final Exam Review Session - YouTube Exam Archives: 3311 (OChem I) ACS organic chem final May 1, 2007 — I am taking my organic chem final next week. Its national exam written by ACS. Just wonder have any of you taken it before. How hard is it? Sport Marketing Association You've reached the home of the Sport Marketing Association, where academia and industry strive to develop and expand the body of knowledge in sport marketing. Sports marketing Sports marketing is an element of sports promotion which involves a wide variety of sectors of the sports industry, including broadcasting, advertising, social ... What Is Sports Marketing? Aug 3, 2023 — Sports Marketing can be defined as a marketing strategy that is aimed at promoting sporting events, equipment or products and services using an ... Sport Marketing Using a full-color format and companion web study guide, students will explore how fans, players, coaches, the

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