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Coursebook answers

Chapter 28

Science in context guidance

- Students should already be familiar with a number of wave behaviours such as reflection, refraction and diffraction. These are all phenomena that occur with light, but also with other waves such as water waves.
- Waves can also be transmitted and absorbed. It is worth asking students if they can explain wave phenomena using particles instead of waves. They may come up with some interesting ideas!

Self-assessment questions

1 energy $E = hf = 6.63 \times 10^{-34} \times 1.0 \times 10^{16}$
 $= 6.63 \times 10^{-18} \text{ J} \approx 6.6 \times 10^{-18} \text{ J}$

2 energy $E = \frac{hc}{\lambda}$
 For red light, $E = \frac{6.63 \times 10^{-34} \times 3.0 \times 10^8}{700 \times 10^{-9}}$
 $= 2.8 \times 10^{-19} \text{ J}$

For violet light, $E = \frac{6.63 \times 10^{-34} \times 3.0 \times 10^8}{400 \times 10^{-9}}$
 $= 5.0 \times 10^{-19} \text{ J}$

3 Rearrange energy $E = \frac{hc}{\lambda}$ to give wavelength $\lambda = \frac{hc}{E}$

a $\lambda = \frac{6.63 \times 10^{-34} \times 3.0 \times 10^8}{10^{-12}} = 2.0 \times 10^{-13} \text{ m}$,
 γ -ray

b $\lambda = \frac{6.63 \times 10^{-34} \times 3.0 \times 10^8}{10^{-11}} = 2.0 \times 10^{-14} \text{ m}$,
 X-ray

c $\lambda = \frac{6.63 \times 10^{-34} \times 3.0 \times 10^8}{10^{-10}} = 2.0 \times 10^{-15} \text{ m}$,
 ultraviolet

d $\lambda = \frac{6.63 \times 10^{-34} \times 3.0 \times 10^8}{10^{-9}} = 2.0 \times 10^{-16} \text{ m}$,
 infrared

e $\lambda = \frac{6.63 \times 10^{-34} \times 3.0 \times 10^8}{10^{-17}} = 2.0 \text{ m}$, radio
 wave

4 energy of one photon, $E = \frac{hc}{\lambda}$
 $= \frac{6.63 \times 10^{-34} \times 3.0 \times 10^8}{6.48 \times 10^{-7}} = 3.07 \times 10^{-19} \text{ J}$

number of photons per second =
 $\frac{\text{power of laser}}{\text{energy per photon}} = \frac{0.0010}{3.07 \times 10^{-19}} = 3.26 \times 10^{15} \text{ s}^{-1} \approx 3.3 \times 10^{15} \text{ s}^{-1}$

5 energy change, $W = 1.2 \text{ eV} = QV$
 $= 1.6 \times 10^{-19} \times 1.2 = 1.92 \times 10^{-19} \text{ J} \approx 1.9 \times 10^{-19} \text{ J}$
 energy in eV = 1.2 eV

6 energy in joules, $E = hf$
 $1 \text{ eV} = 1.60 \times 10^{-19} \text{ J}$
 $E = \frac{6.63 \times 10^{-34} \times 3.0 \times 10^{15}}{1.60 \times 10^{-19}} = 12\,400 \text{ eV} \approx 12 \text{ keV}$

7 Rearrange energy $E = \frac{hc}{\lambda}$ to give wavelength λ
 $= \frac{hc}{E} = \frac{6.63 \times 10^{-34} \times 3.0 \times 10^8}{10 \times 1.6 \times 10^{-19}} \approx 1.24 \times 10^{-7} \text{ m}$,
 ultraviolet

8 a energy gained = work done on proton by potential difference
 energy gained = $QV = 1.60 \times 10^{-19} \times 1500$
 $= 2.4 \times 10^{-16} \text{ J}$

b kinetic energy $E_k = \frac{1}{2}mv^2$ so speed $v =$
 $\sqrt{\frac{2E_k}{m}} = \sqrt{\frac{2 \times 2.4 \times 10^{-16}}{1.67 \times 10^{-27}}} =$
 $\approx 5.3 \times 10^5 \text{ m s}^{-1}$

9 Rearrange $eV = \frac{hc}{\lambda}$ to give Planck's constant,
 $h = \frac{e\lambda c}{f}$

For infrared LED, $h =$
 $\frac{1.6 \times 10^{-19} \times 1.35 \times 910 \times 10^{-9}}{3.0 \times 10^8} = 6.55 \times 10^{-34} \text{ J s}$

Chapter 28 D Reading Answers

Jicheng Xie



Chapter 28 D Reading Answers:

The Story Bible Study Guide Randy Frazee,2016-08-09 The Story group Bible study provides groups of all sizes the opportunity to discuss and apply what they experience during the 31 week The Story church campaign To understand the Bible says Frazee you need bifocal lenses because two perspectives are involved The Lower Story our story is actually many stories of men and women interacting with God in the daily course of life The Upper Story is God s story the tale of his great overarching purpose that puts the individual stories together like panels in one unified mural In 31 sessions The Story video based group study opens your eyes to God s master plan unfolding in the lives of the Bible s characters and in your own life Discover the heart of God s Upper Story and the joy that comes as you align your story with God s The Story Study Guide and DVD sold separately are designed for use by groups of all sizes including small groups and Sunday school and adult education classes Designed for use with The Story Adult Curriculum Study DVD 9780310329527 sold separately Catholic High School Entrance Exams For Dummies Lisa Zimmer Hatch,Scott A. Hatch,2010-04-05 A real world guide to passing the entrance exam for Catholic high school Catholic High School Entrance Exams For Dummies provides students and their parents with an efficient and effective way to prepare for the HSPT TACHS and COOP the three entrance exams used by Catholic high schools Included are Six full length practice tests Test taking tips from the experts Thorough reviews of each test s format With full sample tests up to date questions and a comprehensive review of the basics in each category Catholic High School Entrance Exams For Dummies is a family s ticket to education success **GED Test For Dummies** Murray Shukyn,2017-01-12 Score high on the GED Test In today s job environment it s usually the better educated person who gets the position promotion or raise Scoring high on the GED Test can give you an edge over the competition whether it s to get a brand new job or advance in the one you already have If you re preparing for the exam and want to increase your odds of scoring higher GED Test For Dummies gets you up and running with everything you need to know for test day Inside you ll find valuable easy to digest information for navigating your way through tests on Language Arts Social Studies Mathematical Reasoning and Science Whether you re looking to perfect your grammar and punctuation skills put the social in your studies take the fear out of math and science get familiar with different types of fiction and nonfiction passages or answer every multiple choice question with confidence GED Test For Dummies makes it not only possible but easy for you to score high on this life changing exam Fully updated to reflect the latest version of the GED test Includes two full length practice tests with answers and detailed explanations Provides vital information and test taking tips to help maximize your score Includes special considerations for those whose first language isn t English Feel good about yourself knowing that you accomplished something amazing Get GED Test For Dummies and put yourself on the road to greater success *5 lb. Book of GRE Practice Problems Problems on All Subjects, Includes 1,800 Test Questions and Drills, Online Study Guide, Proven Strategies to Pass the Exam* Manhattan Prep,2018-12-04 Manhattan Prep s best selling 5 lb Book of GRE Practice Problems has been

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