

Exam-style questions and sample answers have been written by the authors. In examinations, the way marks are awarded may be different.

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 $\lambda = \frac{6.63 \times 10^{-34} \times 3.0 \times 10^8}{10^{-2}} = 2.0 \text{ m}$, 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,
 $h = \frac{e\lambda c}{V}$

For infrared LED, $h =$
 $\frac{1.6 \times 10^{-19} \times 1.35 \times 910 \times 10^{-7}}{3.0 \times 10^8} = 6.55 \times 10^{-34} \text{ J s}$

Chapter 28 D Reading Answers

Zhe Xu



Chapter 28 D Reading Answers:

Chapter 28 D Reading Answers: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. Chapter 28 D Reading Answers : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Chapter 28 D Reading Answers : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Chapter 28 D Reading Answers : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Chapter 28 D Reading Answers

1. Understanding the eBook Chapter 28 D Reading Answers
 - The Rise of Digital Reading Chapter 28 D Reading Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 28 D Reading Answers
 - 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 Chapter 28 D Reading Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 28 D Reading Answers
 - Personalized Recommendations
 - Chapter 28 D Reading Answers User Reviews and Ratings
 - Chapter 28 D Reading Answers and Bestseller Lists
5. Accessing Chapter 28 D Reading Answers Free and Paid eBooks
 - Chapter 28 D Reading Answers Public Domain eBooks
 - Chapter 28 D Reading Answers eBook Subscription Services
 - Chapter 28 D Reading Answers Budget-Friendly Options
6. Navigating Chapter 28 D Reading Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 28 D Reading Answers Compatibility with Devices
 - Chapter 28 D Reading Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 28 D Reading Answers
 - Highlighting and Note-Taking Chapter 28 D Reading Answers
 - Interactive Elements Chapter 28 D Reading Answers
8. Staying Engaged with Chapter 28 D Reading Answers

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 28 D Reading Answers
9. Balancing eBooks and Physical Books Chapter 28 D Reading Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 28 D Reading Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 28 D Reading Answers
- Setting Reading Goals Chapter 28 D Reading Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 28 D Reading Answers
- Fact-Checking eBook Content of Chapter 28 D Reading Answers
 - 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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