



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 $E = hf = 6.63 \times 10^{-34} \times 1.0 \times 10^{15}$
 $= 6.63 \times 10^{-19} \text{ J} \approx 6.6 \times 10^{-19} \text{ J}$

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

b $\lambda = \frac{6.63 \times 10^{-34} \times 3.0 \times 10^8}{10^{-15}} \approx 2.0 \times 10^{-16} \text{ m}$,
 X-ray

c $\lambda = \frac{6.63 \times 10^{-34} \times 3.0 \times 10^8}{10^{-18}} \approx 2.0 \times 10^{-7} \text{ m}$,
 ultraviolet

d $\lambda = \frac{6.63 \times 10^{-34} \times 3.0 \times 10^8}{10^{-20}} \approx 2.0 \times 10^{-4} \text{ m}$,
 infrared

e $\lambda = \frac{6.63 \times 10^{-34} \times 3.0 \times 10^8}{10^{-23}} \approx 2.0 \text{ m}$, 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 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,
 $h = \frac{eV\lambda}{c}$
 For infrared LED, $\lambda =$
 $\frac{1.6 \times 10^{-19} \times 1.35 \times 910 \times 10^{-9}}{3.0 \times 10^8} = 6.55 \times 10^{-34} \text{ J s}$



Answers For Learntci Chapter 28

Jacqueline Rhoades



Answers For Learntci Chapter 28:

The Top Books of the Year Answers For Learntci Chapter 28 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Answers For Learntci Chapter 28 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves 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 compelling 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 an exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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