

Question number	Answer	Marks	Guidance
1 a	Force (between two masses) = $\frac{\text{Gravitational constant} \times \text{mass}_1 \times \text{mass}_2}{\text{distance between centres}^2}$	B2	Maximum one out of two if any variable is not defined ALLOW proportionality rather than equality $F \propto \frac{m_1 m_2}{d^2}$ $F = \frac{G m_1 m_2}{d^2}$ for first mark with symbols defined for second mark F = force, m_1 and m_2 are the masses of the bodies (G = gravitational constant), d is the distance between centres of bodies
1 b	$F = \frac{G m_1 m_2}{d^2} = \frac{6.67 \times 10^{-11} \times 4.87 \times 10^{24} \times 2.00}{(6.05 \times 10^6)^2}$ $F = 17.8 \text{ N}$	C1 A1	
1 c	$F_E = \frac{Gm \times 6.0 \times 10^{24}}{d^2}$ $F_M = \frac{Gm \times 7.4 \times 10^{22}}{(3.8 \times 10^8 - d)^2}$ $\frac{Gm \times 7.4 \times 10^{22}}{(3.8 \times 10^8 - d)^2} = \frac{Gm \times 6.0 \times 10^{24}}{d^2}$ $d^2 = \left(\frac{6.0 \times 10^{24}}{7.4 \times 10^{22}} \right) (3.8 \times 10^8 - d)^2$ $d^2 = (81.081) (3.8 \times 10^8 - d)^2$ $d = 9.005 (3.8 \times 10^8 - d)$ $d = 3.42 \times 10^8 \text{ m}$	C1 C1 C1 A1	m is mass placed on the line joining centres at a distance, d , from Earth centre ALLOW any subject here
2 a	potential = - $\frac{G \times \text{mass (of Earth)}}{\text{distance from centre (of Earth)}}$	B2	ALLOW Max 1 out of 2 marks, if minus sign is omitted
2 b	Speed needed to escape from gravitational pull of a massive body to infinity, without supply of energy/burning fuel (AWW) Speed at which the object's kinetic energy is	B1 B1	

Ocr A181 Mark Scheme 2014 Physics June

Rachel S Tattersall



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The Top Books of the Year Ocr A181 Mark Scheme 2014 Physics June The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. Ocr A181 Mark Scheme 2014 Physics June : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating 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 mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins 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 Pape, 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 masterful and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Table of Contents Ocr A181 Mark Scheme 2014 Physics June

1. Understanding the eBook Ocr A181 Mark Scheme 2014 Physics June
 - The Rise of Digital Reading Ocr A181 Mark Scheme 2014 Physics June
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr A181 Mark Scheme 2014 Physics June
 - 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 Ocr A181 Mark Scheme 2014 Physics June
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr A181 Mark Scheme 2014 Physics June
 - Personalized Recommendations
 - Ocr A181 Mark Scheme 2014 Physics June User Reviews and Ratings
 - Ocr A181 Mark Scheme 2014 Physics June and Bestseller Lists
5. Accessing Ocr A181 Mark Scheme 2014 Physics June Free and Paid eBooks
 - Ocr A181 Mark Scheme 2014 Physics June Public Domain eBooks
 - Ocr A181 Mark Scheme 2014 Physics June eBook Subscription Services
 - Ocr A181 Mark Scheme 2014 Physics June Budget-Friendly Options
6. Navigating Ocr A181 Mark Scheme 2014 Physics June eBook Formats
 - ePub, PDF, MOBI, and More
 - Ocr A181 Mark Scheme 2014 Physics June Compatibility with Devices
 - Ocr A181 Mark Scheme 2014 Physics June Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr A181 Mark Scheme 2014 Physics June
 - Highlighting and Note-Taking Ocr A181 Mark Scheme 2014 Physics June
 - Interactive Elements Ocr A181 Mark Scheme 2014 Physics June
8. Staying Engaged with Ocr A181 Mark Scheme 2014 Physics June

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Ocr A181 Mark Scheme 2014 Physics June
- 9. Balancing eBooks and Physical Books Ocr A181 Mark Scheme 2014 Physics June
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr A181 Mark Scheme 2014 Physics June
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ocr A181 Mark Scheme 2014 Physics June
 - Setting Reading Goals Ocr A181 Mark Scheme 2014 Physics June
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ocr A181 Mark Scheme 2014 Physics June
 - Fact-Checking eBook Content of Ocr A181 Mark Scheme 2014 Physics June
 - 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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