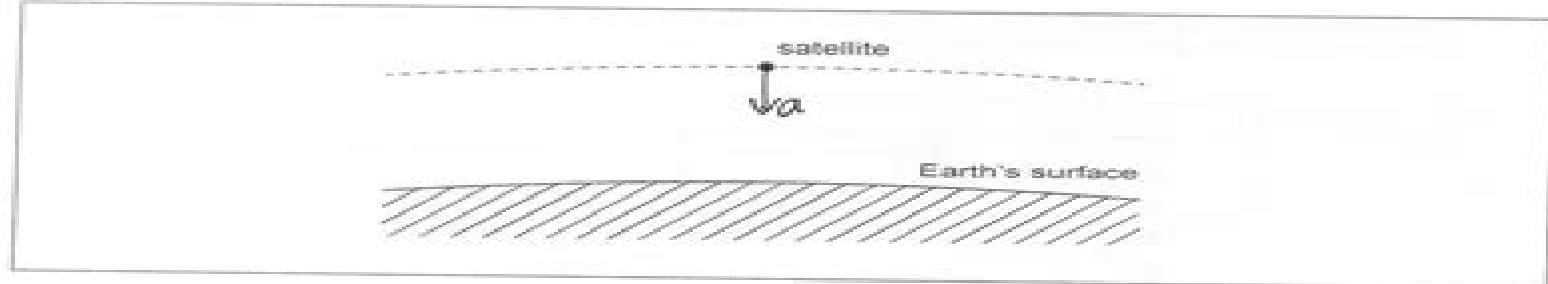


3. A satellite moves around Earth in a circular orbit.



- (a) Draw an arrow on the diagram to represent the direction of the acceleration of the satellite.
- (b) The following data are given:

[1]

Mass of Earth, $M = 5.97 \times 10^{24} \text{ kg}$
 Radius of Earth, $R = 6.37 \times 10^6 \text{ m}$
 Orbital period of the satellite, $T = 5.62 \times 10^3 \text{ s}$

- (i) Kepler's Third Law of orbital motion states that $T^2 = kr^3$ where k is a constant and r is the orbital radius of the satellite.
 Show that $k = \frac{4\pi^2}{GM}$.

[1]

F_g provides the F_c

$$\frac{GMm}{r^2} = m/r \left(\frac{2\pi}{T} \right)^2$$

$$\frac{GM}{T^2} = \left(\frac{2\pi}{T} \right)^2 \quad \therefore k = \frac{4\pi^2}{GM}$$

$$4\pi^2 r^3 = GM T^2$$

$$T^2 = \frac{4\pi^2}{GM} r^3 \text{ (shown)}$$

- (ii) Determine the height of the satellite above the Earth's surface.

[2]

$$T^2 = \frac{4\pi^2}{GM} r^3$$

$$\frac{T^2 \cdot GM}{4\pi^2} = r^3$$

$$\therefore r = \sqrt[3]{\frac{T^2 GM}{4\pi^2}}$$

$$\therefore h = \sqrt[3]{\frac{T^2 GM}{4\pi^2}} - R_E$$

$$= \sqrt[3]{\frac{(5.62 \times 10^3)^2 \times 6.67 \times 10^{-11} \times 5.97 \times 10^{24}}{4\pi^2}} - 6.37 \times 10^6$$

$$= 4.6 \times 10^5 \text{ m}$$



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1. Understanding the eBook Physics Specimen Paper Ib 2015
 - The Rise of Digital Reading Physics Specimen Paper Ib 2015
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Specimen Paper Ib 2015
 - 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 Physics Specimen Paper Ib 2015
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Specimen Paper Ib 2015
 - Personalized Recommendations
 - Physics Specimen Paper Ib 2015 User Reviews and Ratings

- Physics Specimen Paper Ib 2015 and Bestseller Lists
- 5. Accessing Physics Specimen Paper Ib 2015 Free and Paid eBooks
 - Physics Specimen Paper Ib 2015 Public Domain eBooks
 - Physics Specimen Paper Ib 2015 eBook Subscription Services
 - Physics Specimen Paper Ib 2015 Budget-Friendly Options
- 6. Navigating Physics Specimen Paper Ib 2015 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physics Specimen Paper Ib 2015 Compatibility with Devices
 - Physics Specimen Paper Ib 2015 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics Specimen Paper Ib 2015
 - Highlighting and Note-Taking Physics Specimen Paper Ib 2015
 - Interactive Elements Physics Specimen Paper Ib 2015
- 8. Staying Engaged with Physics Specimen Paper Ib 2015
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Specimen Paper Ib 2015
- 9. Balancing eBooks and Physical Books Physics Specimen Paper Ib 2015
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Specimen Paper Ib 2015
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physics Specimen Paper Ib 2015
 - Setting Reading Goals Physics Specimen Paper Ib 2015
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics Specimen Paper Ib 2015
 - Fact-Checking eBook Content of Physics Specimen Paper Ib 2015
 - 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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