

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	

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KJ Lindholm-Leary



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Table of Contents A Level Physics 2015 Mark Scheme Aqa

1. Understanding the eBook A Level Physics 2015 Mark Scheme Aqa
 - The Rise of Digital Reading A Level Physics 2015 Mark Scheme Aqa
 - Advantages of eBooks Over Traditional Books
2. Identifying A Level Physics 2015 Mark Scheme Aqa
 - 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 A Level Physics 2015 Mark Scheme Aqa
 - User-Friendly Interface
4. Exploring eBook Recommendations from A Level Physics 2015 Mark Scheme Aqa
 - Personalized Recommendations
 - A Level Physics 2015 Mark Scheme Aqa User Reviews and Ratings
 - A Level Physics 2015 Mark Scheme Aqa and Bestseller Lists
5. Accessing A Level Physics 2015 Mark Scheme Aqa Free and Paid eBooks

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