

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 $F \propto \frac{m_1 m_2}{d^2}$ ALLOW $F = \frac{G m_1 m_2}{d^2}$ 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

A Loxley



Ocr A181 Mark Scheme 2014 Physics June:

The book delves into Ocr A181 Mark Scheme 2014 Physics June. Ocr A181 Mark Scheme 2014 Physics June is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Ocr A181 Mark Scheme 2014 Physics June, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Ocr A181 Mark Scheme 2014 Physics June
 - Chapter 2: Essential Elements of Ocr A181 Mark Scheme 2014 Physics June
 - Chapter 3: Ocr A181 Mark Scheme 2014 Physics June in Everyday Life
 - Chapter 4: Ocr A181 Mark Scheme 2014 Physics June in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Ocr A181 Mark Scheme 2014 Physics June. This chapter will explore what Ocr A181 Mark Scheme 2014 Physics June is, why Ocr A181 Mark Scheme 2014 Physics June is vital, and how to effectively learn about Ocr A181 Mark Scheme 2014 Physics June.
 3. In chapter 2, the author will delve into the foundational concepts of Ocr A181 Mark Scheme 2014 Physics June. The second chapter will elucidate the essential principles that need to be understood to grasp Ocr A181 Mark Scheme 2014 Physics June in its entirety.
 4. In chapter 3, the author will examine the practical applications of Ocr A181 Mark Scheme 2014 Physics June in daily life. The third chapter will showcase real-world examples of how Ocr A181 Mark Scheme 2014 Physics June can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Ocr A181 Mark Scheme 2014 Physics June in specific contexts. This chapter will explore how Ocr A181 Mark Scheme 2014 Physics June is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Ocr A181 Mark Scheme 2014 Physics June. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Ocr A181 Mark Scheme 2014 Physics June.

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