Question	Answer	Marks	Guidance
1 a	Force (between two masses) = Gravitational constant ×mass, ×mass, distance between centres²	B2	Maximum one out of two if any variable is not defined  ALLOW proportionality rather than equality $F \propto \frac{m_1 m_2}{d^2}$ to 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 Ь	$F = \frac{Gm_1m_2}{\sigma^2} = \frac{6.67 \times 10^{-11} \times 4.87 \times 10^{24} \times 2.00}{(6.05 \times 10^6)^2}$ $F = 17.8N$	C1 A1	
1 c	$F_{c} = \frac{Gm \times 6.0 \times 10^{24}}{d^{2}}$ $F_{sr} = \frac{Gm \times 7.4 \times 10^{22}}{\left(3.8 \times 10^{8} - d\right)^{2}}$	C1	m is mass placed on the line joining centres at a distance, d, from Earth centre
	$\frac{Gm \times 7.4 \times 10^{22}}{\left(3.8 \times 10^{9} - d\right)^{2}} = \frac{Gm \times 6.0 \times 10^{24}}{d^{2}}$ $d^{2} = \left(\frac{6.0 \times 10^{24}}{7.4 \times 10^{22}}\right) \left(3.8 \times 10^{9} - d\right)^{2}$	C1	ALLOW any subject here
	$d^{2} = (81.081)(3.8 \times 10^{9} - d)^{2}$ $d = 9.005(3.8 \times 10^{9} - d)$ $d = 3.42 \times 10^{9} \text{ m}$	Α.	
2 a	potential = _ G × mass (of Earth) distance from centre (of Earth)	62	ALLOW Max 1 out of 2 marks, if minus sign is omitted
2 b	Speed needed to escape from gravitational pull of a massive bodyto infinity, without supply of energy/burning fuel (AW)	B1	
	Speed at which the object's kinetic energy is	B1	

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