



9. (a) 7.5 s
(b) 56.25 m
(c) For the car, $x_c = 900$ m
For the bus, $x_b = 750$ m
(d) x_c is longer than x_b , therefore the car is in front of the bus
10. (a) Before the launch, the rocket carries a spacecraft at rest at the launch pad with zero momentum. During the launch, a large amount of fast moving hot gases is released through the exhaust. This creates/cause high downward momentum. According to the principle of conservation of momentum, an equally high but opposite momentum is produced. Hence, an upthrust gives an acceleration to the rocket.
(b) Acceleration of the rocket can be increased by reducing the mass of the rocket.

Chapter 3 Gravitation

Performance Evaluation

1. (a) (i) $F = \frac{GMm}{r^2}$
(ii) $F = \frac{mv^2}{r}$
(iii) $v = \frac{2\pi r}{T}$
(b) $M = \frac{4\pi^2 r^3}{GT^2}$
(c) 1.99×10^{30} kg
2. (a) $v = \frac{2\pi r}{T}$
(b) $v = \sqrt{\frac{GM}{r}}$

(c) A free falling satellite orbits around Earth with a centripetal acceleration that equals to the gravitational acceleration. The gravitational acceleration does not depend on the mass of the object.

3. Kepler's Second Law states that a line that connects a planet to the Sun sweeps out equal areas in equal times. The shorter the distance of the planet from the Sun, the faster the velocity of the planet. From A to B, the speed of planet Uranus increases to a maximum value and then decreases.
4. (a) Satellite and the Moon as a pair
(b) 7.71×10^5 N
5. (a) – Mass of the Earth
– Distance from the centre of the Earth
(b) 0.23 m s^{-1}
6. (a) $\frac{T_1^2}{T_2^2} = \frac{r_1^3}{r_2^3}$
(b) 4.49×10^{12} m
7. 29.44 years
8. $9\,996 \text{ m s}^{-1}$
9. (a) $3.54 \times 10^6 \text{ m s}^{-1}$
(b) Small particles are unlikely to escape because of the very high escape velocity.
10. (i) $F_{AC} = 2P$
(ii) $F_{AC} = 0.5P$

Chapter 4 Heat

Performance Evaluation

1. (a) Heat is absorbed or released during changes in phase without any change in temperature.
(b) When steam is condensed into water, latent heat is released to heat up the water.
(c) – Rapid heating.
– Direct heating of water, that is without wasting heat to heat up the container.
2. (c) ✓
3. (a) Block A.
(b) Block B. Block with a low specific heat capacity experiences higher increase in temperature.
4. (a) Specific latent heat is the quantity of heat absorbed or released by 1 kg of substance during a change in its phase without any change in its temperature.
(b) 2.27×10^5 J
5. (a) Specific latent heat of vaporisation, l_v , of a substance is the quantity of heat absorbed by 1 kg of the substance when boiling or the quantity of heat released by 1 kg of the substance when condensing without any change in its temperature.

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Kwok Wai Loo



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