

Unit 1 Forces and Motion: Dynamics

ARE YOU READY?

(Pages 2–3)

Knowledge and Understanding

- Scalar quantities include distance (metre, 5.0 m), time (second, 15 s), mass (kilogram, 65 kg), and frequency (hertz, 60 Hz). Vector quantities include velocity (metres per second, 15 m/s [E]), displacement (metre, 6.5 m [S]), acceleration (metres per second squared, 9.8 m/s² [down]), and force (newton, 25 N [forward]).
- (a) Both masses will hit the floor at the same time since the speed at which an object falls is independent of mass, and is related only to acceleration due to gravity (neglecting air resistance).

(b)



(c) $m = 20 \text{ g} = 0.02 \text{ kg}$

$F_g = ?$

$$\begin{aligned} F_g &= mg \\ &= (0.02 \text{ kg})(9.8 \text{ N/kg [down]}) \\ F_g &= 0.2 \text{ N [down]} \end{aligned}$$

The weight of the 20-g mass is 0.2 N [down].

- (d) One example is the force of Earth pulling downward on the 20-g mass and the force of the 20-g mass pulling upward on Earth.
- $F_G = \frac{GM_E m_{\text{Moon}}}{r^2}$. The magnitude of the force of gravity between Earth and the Moon depends linearly on the masses of Earth and the Moon, and depends inversely as the square of the distance between the centres of Earth and the Moon.
- (a) Kinematics is the study of motion (e.g., analyzing motion with constant acceleration). Dynamics is the study of the causes of motion (e.g., analyzing forces by applying Newton's three laws of motion).
- (b) Average speed is a scalar quantity, $v_{\text{av}} = \frac{\text{total distance}}{\text{total time}}$. Average velocity is a vector quantity, $\vec{v}_{\text{av}} = \frac{\text{change of position}}{\text{time interval}}$.
- (c) Static friction is a force that acts to prevent a stationary object from starting to move. Kinetic friction is a force that acts against a moving object. For a given situation, kinetic friction tends to be less than maximum static friction.
- (d) Helpful friction is needed in many cases (e.g., turning a doorknob, walking, and travelling around a corner on a highway). Unwanted friction usually increases the production of waste heat (e.g., friction in the moving parts of an engine).
- (e) Frequency is the number of cycles of a vibration per unit time; it is measured in hertz (Hz) or s⁻¹. Period is the time for one complete cycle of a vibration; it is measured in seconds (s).
- (f) Rotation is the spinning of an object on its own axis (e.g., Earth rotates daily). Revolution is the motion of one body around another (e.g., Earth revolves around the Sun once per year).

Inquiry and Communication

- (a) The units of acceleration are m/s², so the inspector could use a metre stick to measure the distance in metres (m), and a stopwatch to measure the time in seconds (s).
- (b) The acceleration is the dependent variable, and the distance and time are the independent variables. (Students will discover in Chapter 3 that the distance is actually the radius of the circle and the time is the period of rotation of the ride.)

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SA Dillow



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Table of Contents Nelson Physics 12 Unit 3 Solution Manual

1. Understanding the eBook Nelson Physics 12 Unit 3 Solution Manual
 - The Rise of Digital Reading Nelson Physics 12 Unit 3 Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Nelson Physics 12 Unit 3 Solution Manual
 - 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 Nelson Physics 12 Unit 3 Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nelson Physics 12 Unit 3 Solution Manual
 - Personalized Recommendations
 - Nelson Physics 12 Unit 3 Solution Manual User Reviews and Ratings
 - Nelson Physics 12 Unit 3 Solution Manual and Bestseller Lists
5. Accessing Nelson Physics 12 Unit 3 Solution Manual Free and Paid eBooks
 - Nelson Physics 12 Unit 3 Solution Manual Public Domain eBooks
 - Nelson Physics 12 Unit 3 Solution Manual eBook Subscription Services
 - Nelson Physics 12 Unit 3 Solution Manual Budget-Friendly Options
6. Navigating Nelson Physics 12 Unit 3 Solution Manual eBook Formats

- ePub, PDF, MOBI, and More
 - Nelson Physics 12 Unit 3 Solution Manual Compatibility with Devices
 - Nelson Physics 12 Unit 3 Solution Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nelson Physics 12 Unit 3 Solution Manual
 - Highlighting and Note-Taking Nelson Physics 12 Unit 3 Solution Manual
 - Interactive Elements Nelson Physics 12 Unit 3 Solution Manual
 8. Staying Engaged with Nelson Physics 12 Unit 3 Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nelson Physics 12 Unit 3 Solution Manual
 9. Balancing eBooks and Physical Books Nelson Physics 12 Unit 3 Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nelson Physics 12 Unit 3 Solution Manual
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Nelson Physics 12 Unit 3 Solution Manual
 - Setting Reading Goals Nelson Physics 12 Unit 3 Solution Manual
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Nelson Physics 12 Unit 3 Solution Manual
 - Fact-Checking eBook Content of Nelson Physics 12 Unit 3 Solution Manual
 - 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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