

Assessment

Chapter Test B**Teacher Notes and Answers****Forces and the Laws of Motion****CHAPTER TEST B (ADVANCED)**

1. d
2. a
3. c
4. b

Given

$$F_y = 60.0 \text{ N}$$

$$\theta = 30.0^\circ$$

Solution

$$\cos \theta = \frac{F_y}{F}$$

$$F = \frac{F_y}{\cos \theta} = \frac{60.0 \text{ N}}{\cos 30.0^\circ} = 70.0 \text{ N}$$

5. c
6. d
7. d
8. a
9. c
10. a
11. b
12. a

Given

$$F_g = 1.0 \times 10^2 \text{ N}$$

$$\theta = 20.0^\circ$$

Solution

$$\sum F_y = F_n - F_{g,y} = 0$$

$$F_n = F_{g,y} = F_g \cos \theta =$$

$$(1.0 \times 10^2 \text{ N})(\cos 20.0^\circ) = 94 \text{ N}$$

13. b

Given

$$F_{g, \text{book}} = 5 \text{ N}$$

$$\mu_s = 0.2$$

Solution

$$F_{\text{net}} = \sum F_x = F_{\text{applied}} - F_{s, \text{max}} = 0$$

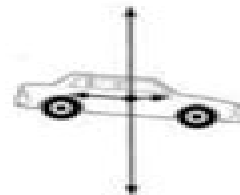
$$F_{\text{applied}} = F_{s, \text{max}} = \mu_s F_n = \mu_s F_g$$

$$F_g = (5 \text{ N} + 5 \text{ N} + 5 \text{ N} + 5 \text{ N} + 5 \text{ N})$$

$$= 25 \text{ N}$$

$$F_{\text{applied}} = (0.2)(25 \text{ N}) = 5 \text{ N}$$

14. Force causes an acceleration or a change in an object's velocity. Applying the brakes decelerates the bicycle (accelerates it in the negative direction) and causes a change in the bicycle's velocity because the bicycle slows down.
15. A scalar quantity has only magnitude. Force has both magnitude and direction; so, it cannot be a scalar quantity.
- 16.



17. The natural condition for a moving object is to remain in motion once it has been set in motion.
18. Gravity exerts a downward force on the car that is balanced by the normal force of the road acting upward on the car. The car's forward motion is opposed by the friction between the road and the tires and by the resistance of the air. The sum of these opposing forces is balanced by an equal and opposite force exerted by the engine and applied to the tires, where the road exerts a reaction force that is directed forward.
19. Mass is the amount of matter in an object and is an inherent property of an object. Weight is not an inherent property of an object and is the magnitude of the force due to gravity acting on the object.
20. The acceleration is then zero, and the car moves at a constant speed.

Chapter 1 universal Forces

M P Sweet



Chapter 1 universal Forces:

The Science of Forces Mary Colson, 2015-12-15 Forces move everything around us That may sound scary and complicated but this book shows readers that forces like friction and other laws of motion can be fascinating and fun Innovative flowcharts bring these abstract concepts to life via brilliant photographs matched with fact boxes showing readers how the moon impacts tides on Earth and how magnetic forces act on matter throughout the universe From the tectonic plates that move Earth's crust to the forces rockets must overcome to leave Earth's atmosphere and reach outer space there are plenty of fantastic forces to explore in this informative book Theory of the Universe M P Sweet, 1908 Elements of physics, by E.J. Andrews and H.N. Howland. To which is added a manual of experiments Ernest John Andrews, 1903 *Treaties in Force* United States. Department of State. Office of the Legal Adviser, 2009 **Isaac Newton's Scientific Method** William L. Harper, 2011-12-08 Isaac Newton's Scientific Method examines Newton's argument for universal gravity and his application of it to resolve the problem of deciding between geocentric and heliocentric world systems by measuring masses of the sun and planets William L Harper suggests that Newton's inferences from phenomena realize an ideal of empirical success that is richer than prediction Any theory that can achieve this rich sort of empirical success must not only be able to predict the phenomena it purports to explain but also have those phenomena accurately measure the parameters which explain them Harper explores the ways in which Newton's method aims to turn theoretical questions into ones which can be answered empirically by measurement from phenomena and to establish that propositions inferred from phenomena are provisionally accepted as guides to further research This methodology guided by its rich ideal of empirical success supports a conception of scientific progress that does not require construing it as progress toward Laplace's ideal limit of a final theory of everything and is not threatened by the classic argument against convergent realism Newton's method endorses the radical theoretical transformation from his theory to Einstein's Harper argues that it is strikingly realized in the development and application of testing frameworks for relativistic theories of gravity and very much at work in cosmology today **Elements of Physics** Ernest John Andrews, Howard Newell Howland, 1903 **Notes on the Land Forces of the British Dominions, Colonies, Protectorates and Mandated Territories (exclusive of India).** Great Britain. War Office, 1925 Analytical Processes; Or, The Primary Principle of Philosophy William Ireland Gill, 1876 **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science**, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **The Old Testament Student** William Rainey Harper, 1888 Vol 8 includes New Testament supplement **The Mechanics of Engineering** Augustus Jay Du Bois, 1902 **The Book of Popular Science**, 1924

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