

Chapter 11 & 12 Study Guide: Motion & Forces Answer Key

Chapter 11: Motion

1. Define (include the formula and circle diagram for calculating speed, velocity, and acceleration):
 - a. Distance: The length between two objects or the length of the path traveled.
 - b. Speed: distance traveled by the time it took to travel. $\text{speed} = \text{distance}/\text{time}$
 - c. Velocity: distance traveled by the time it took to travel and the direction that you traveled in. $\text{velocity} = \text{distance}/\text{time}$
 - d. Acceleration: change in velocity or velocity over time. $\text{acceleration} = \frac{\text{velocity}_{\text{final}} - \text{velocity}_{\text{initial}}}{\text{time}}$
2. What is the speed of an object at rest? 0 m/s
3. The difference between speed and velocity is that velocity includes direction.
4. The SI unit for distance is meter (m).
5. The SI unit for speed or velocity is meter per second (m/s).
6. The SI unit for acceleration is meter per second squared (m/s²).
7. On a **distance-time** graph, what does the slope tell you? Speed or Velocity
8. On a **speed-time** graph, what does the slope tell you? Acceleration

Chapter 12: Forces

9. Describe (what does it say and what is it commonly called)
 - a. Newton's First law of Motion: Also known as "Law of Inertia". Object in motion stays in motion and an object at rest stays at rest UNLESS acted upon by a NET FORCE.
 - b. Newton's Second law of Motion: $F = m \times a$. Force equals the product of an object's mass and acceleration. (Acceleration is equal to the force and inversely proportional to mass)
 - c. Newton's Third law of Motion: Also known as "Action/Reaction Law". For every action there is an equal and opposite reaction.
10. Give an example for each of Newton's laws.
 - a. Newton's First law of Motion: boulder won't move unless something pushes on it, and the moon won't stop rotating unless a force acts on it.
 - b. Newton's Second law of Motion it takes more force to accelerate a school bus than a toy car.
 - c. Newton's Third law of Motion: my foot pushed on the ball (action force), the ball pushes back (reaction force) and fly's forward (resulting net force). OR when you sit in the desk you push down on the desk and the desk pushes on you but they are balanced so there is NO CHANGE in motion.
11. Define and give an example of each of the following terms.

Definition	Example
a. Friction: force that opposes motion.	a. Friction: heat when rubbing hands together.
b. Static Friction: friction that prevents object from moving.	b. Static Friction: pushing against a dresser that won't move.
c. Sliding Friction: friction that occurs between objects sliding past each other.	c. Sliding Friction: going down a slide; dresser sliding across the floor.
d. Rolling Friction: friction that occurs between object rolling against another object.	d. Rolling Friction: roller skates on pavement; car driving on the road
e. Fluid Friction: friction that occurs in a fluid (Examples of Fluid: water, quicksand, air.)	e. Fluid Friction: falling leaves; fish swimming in water

Physical Science Chapter 12 Forces And Motion Study Guide

Chao Zhang



Physical Science Chapter 12 Forces And Motion Study Guide:

Uncovering Student Ideas in Physical Science, Volume 1 Page D. Keeley,Rand Harrington,2010-05-15 This is a must have book if you re going to tackle the challenging concepts of force and motion in your classroom **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 *Barron's Science 360: A Complete Study Guide to Physics with Online Practice* Barron's Educational Series,Kenneth Rideout,2021-09-07 Barron s Math 360 Physics is your complete go to guide for everything physics This comprehensive guide is an essential resource for High school and college courses Homeschooling Virtual Learning Learning pods Inside you ll find Comprehensive Content Review Begin your study with the basic building blocks of physics and build as you go Topics include motion forces electricity magnetism and introduction to nuclear physics and much more Effective Organization Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs Clear Examples and Illustrations Easy to follow explanations hundreds of helpful illustrations and numerous step by step examples make this book ideal for self study and rapid learning Practice Exercises Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts These checkup exercises along with the answers and solutions will help you assess your understanding and monitor your progress Access to Online Practice Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come *Science Curriculum Topic Study* Page Keeley,Joyce Tugel,2019-09-11 Today s science standards reflect a new vision of teaching and learning How to make this vision happen Scientific literacy for all students requires a deep understanding of the three dimensions of science education disciplinary content scientific and engineering practices and crosscutting concepts If you actively engage students in using and applying these three dimensions within curricular topics they will develop a scientifically based and coherent view of the natural and designed world The latest edition of this best seller newly mapped to the Framework for K 12 Science Education and the Next Generation Science Standards NGSS and updated with new standards and research based resources will help science educators make the shifts needed to reflect current practices in curriculum instruction and assessment The methodical study process described in this book will help readers intertwine content practices and crosscutting concepts The book includes An increased emphasis on STEM including topics in science technology and engineering 103 separate curriculum topic study guides arranged in six categories Connections to content knowledge curricular and instructional implications concepts and specific ideas research on student learning K 12 articulation and assessment Teachers and those

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 Committee, 1961 *Children's Books in Print* R R Bowker Publishing, Bowker, 1999-12 **Prentice Hall Science Explorer**
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 Sutherland Cotton, Charles Lewis Hind, William Teignmouth Shore, Alfred Bruce Douglas, Ellis Ashmead-Bartlett, Thomas
 William Hodgson Crosland, 1877 *Critical Care Study Guide* Gerard J. Criner, Gilbert E. D'Alonzo, 2013-03-09 Critical care
 medicine is a dynamic and exciting arena where complex pathophysiologic states requiring extensive knowledge and clinical
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