

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. **speed = distance/time**
 - c. Velocity: distance traveled by the time it took to travel and the direction that you traveled in. **velocity = distance/time**
 - d. Acceleration: change in velocity or velocity over time. **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

Forces And Motion Chapter 12 Answer Key Workbook

RS Peters



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Table of Contents Forces And Motion Chapter 12 Answer Key Workbook

1. Understanding the eBook Forces And Motion Chapter 12 Answer Key Workbook
 - The Rise of Digital Reading Forces And Motion Chapter 12 Answer Key Workbook
 - Advantages of eBooks Over Traditional Books
2. Identifying Forces And Motion Chapter 12 Answer Key Workbook
 - 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 Forces And Motion Chapter 12 Answer Key Workbook
 - User-Friendly Interface
4. Exploring eBook Recommendations from Forces And Motion Chapter 12 Answer Key Workbook
 - Personalized Recommendations
 - Forces And Motion Chapter 12 Answer Key Workbook User Reviews and Ratings
 - Forces And Motion Chapter 12 Answer Key Workbook and Bestseller Lists
5. Accessing Forces And Motion Chapter 12 Answer Key Workbook Free and Paid eBooks
 - Forces And Motion Chapter 12 Answer Key Workbook Public Domain eBooks
 - Forces And Motion Chapter 12 Answer Key Workbook eBook Subscription Services
 - Forces And Motion Chapter 12 Answer Key Workbook Budget-Friendly Options
6. Navigating Forces And Motion Chapter 12 Answer Key Workbook eBook Formats

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