

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 = $\frac{velocity_{final} - velocity_{initial}}{time}$**
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

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RJ Shavelson



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Table of Contents Physical Science Chapter 12 Forces And Motion Study Guide

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

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