

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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Table of Contents Physical Science Force Study Guide Answer

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

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