

Chapter 11 & 12 Study Guide: Motion & Forces

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 travelled 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? *Zero 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: *Law of Inertia*. Object in motion stays in motion or an object at rest stays at rest UNLESS acted on by a **FORCE**.
 - b. Newton's Second law of Motion: $F=ma$. Force equals the product of an object's mass and *acceleration*. (or Acceleration is equal to the force and inversely proportional to mass)
 - c. Newton's Third law of Motion: *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: *bolder 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 you sitting in the desk is pushing down on the desk and the desk is pushing up on you but they are balanced so no CHANGE in motion.*
11. Define and give an example of each of the following terms.

Definition	Example
a. Friction: <i>force that opposes motion</i>	a. Friction: <i>heat when rubbing hands together.</i>
b. Static Friction: <i>friction that prevents object from moving</i>	b. Static Friction: <i>Pushing against dresser that won't move</i>
c. Sliding Friction: <i>friction that occurs between objects sliding past each other.</i>	c. Sliding Friction: <i>going down a slide, dresser sliding across the floor.</i>
d. Rolling Friction: <i>friction that occurs between object rolling against another object.</i>	d. Rolling Friction: <i>roller skates on pavement.</i>
e. Fluid Friction: <i>friction that occurs in a fluid (Example of Fluid: water, quick sand, air...)</i>	

Physical Science Guided And Study Guide

Sasha Hu



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Table of Contents Physical Science Guided And Study Guide

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

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