

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: 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 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.
e. Fluid Friction: friction that occurs in a fluid (Example of Fluid: water, quick sand, air...)	

Acceleration Study Guide Section 2 Physical Science

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Table of Contents Acceleration Study Guide Section 2 Physical Science

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

6. Navigating Acceleration Study Guide Section 2 Physical Science eBook Formats
 - ePub, PDF, MOBI, and More
 - Acceleration Study Guide Section 2 Physical Science Compatibility with Devices
 - Acceleration Study Guide Section 2 Physical Science Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Acceleration Study Guide Section 2 Physical Science
 - Highlighting and Note-Taking Acceleration Study Guide Section 2 Physical Science
 - Interactive Elements Acceleration Study Guide Section 2 Physical Science
8. Staying Engaged with Acceleration Study Guide Section 2 Physical Science
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Acceleration Study Guide Section 2 Physical Science
9. Balancing eBooks and Physical Books Acceleration Study Guide Section 2 Physical Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Acceleration Study Guide Section 2 Physical Science
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Acceleration Study Guide Section 2 Physical Science
 - Setting Reading Goals Acceleration Study Guide Section 2 Physical Science
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Acceleration Study Guide Section 2 Physical Science
 - Fact-Checking eBook Content of Acceleration Study Guide Section 2 Physical Science
 - 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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