

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/s^2)
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...)	

Physical Science Guided And Study Guide

Léo Pomar



Physical Science Guided And Study Guide:

The Top Books of the Year Physical Science Guided And Study Guide The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Physical Science Guided And Study Guide : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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