

## 1. Physics Notes

### - Chapter 2

- 2.2: Speed is a measure of how fast something is moving. It is the rate which distance is covered.
  - The word rate is a clue that something is being divided by time. Speed is always measured in terms of a unit of distance divided by a unit of time.
  - Instantaneous Speed: A speed at any instant.
  - $Average\ speed = \frac{(Total\ distance\ covered)}{(Time\ Interval)}$
- 2.3
  - Velocity:
    - The difference between speed and velocity is velocity has a direction.
  - Constant Velocity
    - From the definition of velocity, it follows that to have a constant velocity requires both constant speed and constant direction. Constant speed means that the motion remains at the same speed.
    - Motion at constant velocity is motion in a straight line at constant speed.
  - Changing velocity
    - If either the speed or the direction is changing, then the velocity is changing. Constant speed and constant velocity are not the same.
    - In a car there are three controls that are used to change the velocity. Gas, break, steering.
- 2.4 Acceleration:
  - $Acceleration = \frac{(change\ of\ velocity)}{(Time\ interval)}$
  - The rate at which the velocity is changing is called acceleration. Because acceleration is a rate, it is a measure of how the velocity is changing with respect to time.
  - What defines acceleration is change.
  - Acceleration applies to decreases as well as increases in speed.
  - This is often called deceleration, or negative acceleration.
  - Acceleration, like velocity is directional. If we change either speed or direction, or both. We change velocity. And we accelerate.
  - When straight-line motion is considered, it is common to use speed and velocity interchangeably.
  - $Acceleration\ (along\ a\ straight\ line) = \frac{change\ in\ speed}{time\ interval}$
  - Speed and velocity are measured in units of distance per time.
- 2.5 Free Fall, How Fast:
  - Starts from a rest position and gains speed as it falls

# High School Physics Midterm Study Guide

**RJ Shavelson**



## **High School Physics Midterm Study Guide:**

The Top Books of the Year High School Physics Midterm Study Guide The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. High School Physics Midterm Study Guide : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative 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 top-selling 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 masterful and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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