

CHAPTER³

STUDY GUIDE

ACCELERATED MOTION

Vocabulary Review

Write the term that correctly completes the statement. Use each term once.

acceleration**average acceleration****instantaneous
acceleration****free-fall acceleration****free fall****velocity-time graph**

- _____ A _____ shows how velocity is related to time.
- _____ The change in velocity of an object at an instant of time is its _____.
- _____ The rate at which an object's velocity changes is its _____.
- _____ The motion of falling objects when air resistance is negligible is called _____.
- _____ The _____ of an object is the change in velocity during some measurable time interval divided by that time interval.
- _____ The acceleration of an object in free fall that results from the influence of Earth's gravity is _____.

Free Fall

For each statement below, write true or rewrite the italicized part to make the statement true.

- _____ A feather does not fall in the same way as a pebble because of *gravity*.
- _____ Free fall is the motion of a falling object when the air resistance is negligible.
- _____ Galileo concluded that objects in free fall have *different* accelerations.
- _____ Free-fall acceleration is *the same* for objects of different sizes.
- _____ Free-fall acceleration is always *downward*.
- _____ If you drop a rock, its speed after 3 s will be 19.6 m/s.
- _____ The decision to treat free-fall acceleration as positive or negative depends on the *coordinate system* you use.
- _____ If you toss a ball up, it reaches its maximum height when its velocity is zero.

Chapter 3 • Accelerated Motion

Chapter 3 Study Guide Accelerated Motion Answers

Michal Rosen-Zvi



Chapter 3 Study Guide Accelerated Motion Answers:

Decoding **Chapter 3 Study Guide Accelerated Motion Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Chapter 3 Study Guide Accelerated Motion Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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