

# Acceleration Study Guide

4 pages + 4-page Answer KEY

Physics

ANSWER KEY INCLUDED

Name \_\_\_\_\_

Date \_\_\_\_\_

## ACCELERATION STUDY GUIDE

Matching: Acceleration

- |                                     |  |
|-------------------------------------|--|
| 1 _____ acceleration                | A shows how velocity is related to time  |
| 2 _____ velocity-time graph         | B change in velocity of an object at an instant of time                                    |
| 3 _____ acceleration due to gravity | C rate at which an object's velocity changes   |
| 4 _____ instantaneous acceleration  | D motion of falling objects when air resistance is negligible                              |
| 5 _____ average acceleration        | E the change in velocity during some measurable time interval divided by the time interval |

Name \_\_\_\_\_

10 Which object comes to a complete stop? How do you know?

11 Object D crosses the x-axis while maintaining a constant velocity. What does this indicate about Object D's motion?

12 Object A and Object E both have a constant velocity. What is different about the motion of these two objects?

### Acceleration Problems

13 A car brakes from 25 m/s to 15 m/s in 2.0 s. What is its acceleration?

14 A cyclist traveling at 5.0 m/s accelerates with an acceleration of 0.5 m/s<sup>2</sup> for 5.2 s. What is her final velocity?

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15 A car traveling 15.00 m/s passes a speedometer. It accelerates with an average acceleration of 0.500 m/s<sup>2</sup>. Approximately what meter is the speedometer reading?

16 A train traveling at 6.6 m/s accelerates with an acceleration of 0.66 m/s<sup>2</sup>. What is its final velocity?

17 A ball is thrown upwards with an initial velocity of 15 m/s. How long does it take to reach its maximum height?

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18 An astronaut wearing a 20 kg spacesuit jumps on the Moon with an initial velocity of 10 m/s. On the Moon, the acceleration due to gravity is 1.62 m/s<sup>2</sup>. (assume that downward is the positive direction.)

A How long does it take him to reach maximum height?

B What is his maximum height?

C If you drew a velocity-time graph for the motion of the astronaut, what would be the slope of the line?

D Draw the vectors for acceleration and initial velocity pointed in the same or opposite directions? Explain your answer.

# Study Guide For Acceleration

**Speedy Publishing**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the Speedy Publishing text.

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**Student Study Guide with Programmed Problems to Accompany Fundamentals of Physics & Physics, Parts I & II** Stanley A. Williams, Kenneth Brownstein, Robert Gray, 1974. **Student Study Guide to Accompany Fundamentals of Physics, Rev. Printing, Physics, 3d Ed., Parts 1 and 2** Stanley A. Williams, 1978. *Study Guide with ActivPhysics* Alan

Van Heuvelen, Richard Wolfson, Jay M. Pasachoff, 1999      Study Guide to Accompany Halliday and Resnick Fundamentals of Physics 2nd Ed. and Physics, Combined, 3rd Ed. Stanley A. Williams, 1981-04-27 This popular book incorporates modern approaches to physics It not only tells readers how physics works it shows them Applications have been enhanced to form a bridge between concepts and reasoning      **Study Guide, Student Solutions Manual** Raymond A. Serway, John R. Gordon, 1998      **Study Guide and Student Solutions Manual to Accompany Physics for Scientists and Engineers, by Serway** Raymond A. Serway, Steven Van Wyk, 1996      MATERIAL SCIENCE AND ENGINEERING MECHANICS(For TEXTILES DIPLOMA, MECHANICAL, ALL, CONCEPTS)(SELF LEARNING GUIDE) Prof. Dr. MURUGAVEL. Rathinam, 2024-08-28 MATERIAL SCIENCE AND ENGINEERING MECHANICS FOR ALL DIPLOMA GENERAL CONCEPTS SELF LEARNING BOOK EXACTLY TO IIHT DIPLOMA TEXTILES SYLLABUS      **Student Study Guide & Selected Solutions Manual** David D. Reid, 2007      **Student Study Guide** Pearson, Paul D. Eggen, Donald P. Kauchak, 2006-05      Nursing Acceleration Challenge Exam Study Guide Nace 1 Exam Prep Team, Trivium Test Prep, 2016-11-21 Think all NACE 1 PN RN study guides are the same Think again With easy to understand lessons and practice test questions designed to maximize your score you ll be ready You don t want to waste time and money having to study all over again because you didn t get effective studying in You want to accelerate your education not miss opportunities for starting your future career Every year thousands of people think that they are ready for the NACE 1 PN RN Nursing Acceleration Challenge exam but realize too late when they get their score back that they were not ready at all They weren t incapable and they certainly did their best but they simply weren t studying the right way There are a variety of methods to prepare for the NACE 1 PN RN Exam and they get a variety of results Trivium Test Preps NACE 1 PN RN Study Guide provides the information secrets and confidence needed to get you the score you need the first time around Losing points on the NACE 1 PN RN exam can cost you precious time money and effort that you shouldn t have to spend What is in the book In our NACE 1 PN RN study guide you get the most comprehensive review of all tested concepts The subjects are easy to understand and fully explained example questions to ensure that you master the material Best of all we show you how this information will be applied on the real exam NACE 1 PN RN practice questions are included so that you can know without a doubt that you are prepared Our study guide is streamlined and concept driven not filled with excess junk silly attempts at humor or confusing filler so you get better results through more effective study time Why spend days or even weeks reading through meaningless junk trying to sort out the helpful information from the fluff We give you everything you need to know in a concise comprehensive and effective package      **Young, Munson and Okiishi's A Brief Introduction to Fluid Mechanics** John I. Hochstein, Andrew L. Gerhart, 2021-01-13 This book is designed to cover the standard topics in a basic fluid mechanics course in a streamlined manner that meets the learning needs of students better than the dense encyclopedic format of traditional texts This approach helps students connect math and theory to the physical world and apply these connections to solving problems The

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