

Grade 12 Physics:

Acceleration

Answer the following problems on a separate sheet of paper. Show the formula used & all mathematical calculations.

- How long will it take a falling rock to reach a speed of 45.0 m/s?
4.59 s
- A car coming over a top of a hill at 30.0 m/s accelerates for 4.0 s at 0.70 m/s^2 . What is the increase in the speed of the car?
2.8 m/s
- A steel ball starting from rest at the top of a ramp reaches a speed of 4.2 m/s at the bottom of the ramp. If the time to roll down is 3.3 s, how long is the ramp?
6.9 m
- A lab cart with a ticker tape attached is given a push so that its speed is 0.50 m/s near the top of the slope. It accelerates at 0.14 m/s^2 for 0.65 s, reaching the bottom of the slope. What is the speed at the bottom of the slope?
0.59 m/s
- A car travelling at 30.0 m/s puts on its brakes and decelerates uniformly to a stop in 5.2 s. What is its stopping distance?
78 m
- A car, already travelling at 15.0 m/s, accelerates uniformly, travelling a distance of 200.0 m in the next 11.0 s. What will be the final speed?
21.4 m/s
- If you lived on a planet where the acceleration of gravity is 3.4 m/s^2 , how long would it take for an object to fall 1000.0 m, air resistance ignored?
24.2 s
- A potted plant falls from the balcony of an apartment 40.0 m above the ground.
 - How long will it take to reach the ground? **2.9 s**
 - What will be its speed on impact? **28.4 m/s**
- A jet plane flying at 210.0 m/s goes into a vertical dive accelerating at 14.0 m/s^2 for 3.0 s.
 - How far does it dive during this time? **690 m**
 - What will be the final speed? **252.0 m/s**
- A large jet must reach a speed of 100.0 m/s before it can generate enough lift to leave the ground. If its engine can produce a maximum acceleration of 3.0 m/s^2 , what is the minimum length of runway needed?
 $1.7 \times 10^3 \text{ m}$

Physical Science Section 11 3 Acceleration Answers

Emil J. Kaczor



Physical Science Section 11 3 Acceleration Answers:

Glencoe Physical Science, 1999 **Prentice Hall Physical Science Concepts in Action Program Planner**
National Chemistry Physics Earth Science, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Enrichment Worksheets, Student Edition, for Use with Glencoe Physical Science** Aron Thompson, 1999 **Confusing Science Terms, Grades 5 - 8** Schyrlet Cameron, Carolyn Craig, 2010-08-06 Connect students in grades 5 and up with science using Confusing Science Terms This 80 page book helps students differentiate between confused word pairs or triples and perplexing science terminology The book includes terms from the areas of physical life earth and space science It encourages students to use a science vocabulary journal to construct their own meanings for confusing terms write sentences using the terms and create visual representations for them Students increase their knowledge and understanding of science concepts through vocabulary building while improving science literacy This book includes decoding activities and alternative methods of instruction such as hands on and small group activities games and journaling which allow for differentiated instruction The book supports National Science Education Standards *2023/2024 ASVAB For Dummies (+ 7 Practice Tests, Flashcards, & Videos Online)* Angie Papple Johnston, 2023-03-28 Maximize your ASVAB score and maximize your military job flexibility If you want to join the military you have to take the ASVAB And if you want the flexibility to apply for a specific job you ll need right the score to get it The 2023 2024 edition of ASVAB For Dummies has everything you need to prep for the exam and get the score you need to land the job you want content review study questions practice exams in the book and online digital flashcards instructional videos and practical tips for exam day This bestselling ASVAB study guide is back with everything you need to know about this year s test plus customizable test prep plans so you can make your study time count right up to ASVAB day Brush up on all 10 subject areas including science arithmetic and electronics Then look to the easy to use online resources in this to activate your knowledge and launch your military career Access hundreds of practice questions full length practice tests instructional videos and digital flashcards online Create a study schedule that works for you and maximize your ASVAB score Show the military that you re capable and ready to get started in your dream job Learn at your own pace and get tips for keeping your nerves in check on test day If you re taking the ASVAB this year or this week you need this reliable Dummies study guide it brings results [2020 / 2021 ASVAB For Dummies with Online Practice, Book + 7 Practice Tests Online + Flashcards + Video](#) Angie Papple Johnston, 2020-04-07 Ready to ace the ASVAB Dummies can help Year after year ASVAB For Dummies has been the 1 ASVAB test prep book on the market And now it s expanded and improved for 2020 2021 Packed with plenty of practice questions practice tests flashcards and videos 2020 2021 ASVAB For

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Engineering ,1924 *Focus on physical science* Charles H. Heimler,1989 **Physical Science** ,1984 Conceptual Physical Science Paul G. Hewitt,John Suchocki,Leslie A. Hewitt,2004 Conceptual Physical Science Third Edition takes learning physical science to a new level by combining Hewitt s leading conceptual approach and friendly writing style in a new edition that provides stronger integration of the sciences more quantitative coverage and a wealth of new media resources to help professors in class and students out of class The book s consistent high quality coverage includes five new chapters on chemistry astronomy and earth science for an even more balanced approach to physical science New Looking Forward and Looking Back boxes connect themes and concepts throughout the book helping students see the big picture More computational coverage eg Figuring Physical Science in chapter calculation allows students to practice the quantitative skills they need to master the concepts of physical science and be able to apply their knowledge Looking Forward and Looking Back boxes in every chapter connect themes and concepts throughout the book helping students see the big picture of physical science Powerful media package includes a comprehensive suite of award winning interactive online tutorials that offer students 24 7 help A media gri An Introduction to Physical Science James T. Shipman,Jerry D. Wilson,Aaron W. Todd,2002-07-08 This text presents a survey of the physical sciences physics chemistry astronomy meteorology and geology for non science majors Topics are treated both descriptively and quantitatively providing flexibility for instructors who wish to emphasize a highly descriptive approach a highly quantitative approach or any spectrum in between Introduction to Physical Science James T. Shipman,2000-06

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