

Physics Fun Day 2005 Activity Answers (High School Version)

Remember that safety is the first and last concern of you and your students. Check all accelerometer rubber bands before coming to the park. Require students to have one hand on the ride at all times. Many of the values you will find on this page were done experimentally but most were based on values provided by Knott's Berry Farm, so allow for some variations. If you would like to participate in the planning and selection of ride questions and solutions, sign up in the Boardwalk Ballroom. Please keep this page "teacher confidential."

BOOMERANG

1. $h = 38 \text{ m}$
2. $v_{\text{avg}} = 11 \text{ m/s}$
3. $v = 22 \text{ m/s}$
4. about 2.0 g's

BUMPER CARS

1. 3rd Law
2. Pole touching ceiling
3. Increase collision time
4. Answers vary

DRAGON SWING

1. About 2 g's or 20 m/s
2. $L = 16 \text{ m}$
3. $v = 18 \text{ m/s}$
4. $a = 18 \text{ m/s}^2$



XCELERATOR

1. $h = 33 \text{ m}$
2. $g = 1.6 \text{ g's}$
3. $t = 2.3 \text{ s}$; $d = 48 \text{ m}$; $v = 36 \text{ m/s}$
4. $g = 0 \text{ g's}$

GHOST RIDER

1. $h = 36 \text{ m}$
2. $v = 23 \text{ m/s}$
3. $a = 0.7 \text{ g's}$



RIP TIDE

1. Height = 11.5 m
2. Gauge Pressure = $1.1 \times 10^5 \text{ Pa}$
3. Volume Flow Rate = $2 \times 10^{-2} \text{ m}^3/\text{s}$
4. $\text{HP}_{\text{avg}} = 8.5 \text{ hp}$

JAGUAR

1. $v_1 = 12 \text{ m/s}$; $v_2 = 12 \text{ m/s}$
2. $r = 8.5 \text{ m}$
3. $t = 4.4 \text{ s}$; $v = 12 \text{ m/s}$
4. $a = 17 \text{ m/s}^2$ or 1.8 g's



LOG RIDE

1. Guests = 1.63×10^4
2. $v = 2.5 \text{ m/s}$
3. $h = 11.6 \text{ m}$; angle = 35°
4. $v = 15 \text{ m/s}$
5. 3400 kg-m/s

LOG RIDE

MONTEZOOMA

1. $t = 1 \text{ sec}$; $a = 2.5 \text{ m/s}^2$
2. $a = 2.5 \text{ g's}$
3. $a = 3 \text{ g's}$
4. $e = 80\%$

PERILOUS PLUNGE

1. angle = 75°
2. $h = 35 \text{ m}$
3. $a = 9.5 \text{ m/s}^2$
4. $a = 8.5 \text{ m/s}^2$
5. answers vary



SUPREME SCREAM

1. $h = 76 \text{ m}$
2. $t = 3 \text{ sec}$; $d = 45 \text{ m}$
3. answers vary
4. $a = -0.8 \text{ g}$
5. $a = 4 \text{ g's}$



SILVER BULLET

1. Length = 12.1 m
2. Power, min = 200 hp
3. Speed Increase = 25 m/s
4. Angular Velocity = 1.9 rad/s
5. Radius = 8 m
 $a_c = 29 \text{ m/s}^2$

LA REVOLUCION

1. 240 degrees
2. 11.5 m
3. Period of 7.4 seconds
4. from 22 m/s^2 to 33 m/s^2
5. from 22 m/s^2 to 33 m/s^2

Knotts Physics Fun Day Answers

Rachel Sandford



Knotts Physics Fun Day Answers:

Forthcoming Books Rose Arny,1995 *Books Out-of-print* ,1986 **Books in Print** ,1977 **The Handy Physics Answer Book** Charles Liu,2020-09-01 An informative accessible easy to use guide to physics covering the fundamental concepts and amazing discoveries that govern our universe We don't need a U S Supreme Court ruling to know that everyone is governed by the laws of physics but what are they How do they affect us Why do they matter What did Newton mean when he said For every action there is an equal and opposite reaction What is gravity What is Bernoulli's Principle Einstein's Theory of Relativity How do space time matter and energy all interact How do scientific laws theories and hypotheses differ Physics can often seem difficult or complex but it's actually beautiful and fun and it doesn't need to be hard to understand Revised for the first time in a decade the completely updated third edition of The Handy Physics Answer Book makes physics and its impact on us the world and the universe entertaining and easy to grasp It dispenses with the dense jargon and overly complicated explanations often associated with physics and instead it takes an accessible conceptual approach never dumbing down the amazing science yet all written in everyday English The Handy Physics Answer Book tackles big issues and concepts like motion magnetism sound and light and lots of smaller topics too like why don't birds or squirrels on power lines get electrocuted and makes them enlightening and enjoyable for anyone who picks up this informative book For everyone who has ever wondered about the sources of energy production in the United States or how different kinds of light bulbs shine or why wearing dark colored clothes is warmer than light colored ones or even what happens when you fall into a black hole The Handy Physics Answer Book examines more than 1 000 of the most frequently asked most interesting and most unusual questions about physics including How can I be moving even while I'm sitting still If the Sun suddenly disappeared what would happen to the Sun's gravity What is the energy efficiency of the human body Why do golf balls have dimples How can ice help keep plants warm What kinds of beaches are best for surfing What do 2G 3G 4G and 5G wireless networks mean Why shouldn't metal objects be placed in microwave ovens Why does my voice sound different on a recording Can a light beam be frozen in time Why are soap bubbles sometimes so colorful Why does a charged balloon stick to a wall Is Earth a giant magnet What are gamma rays What happens when antimatter strikes matter What is quantum teleportation Are artificial intelligence systems able to think on their own What happens when two black holes collide How will the universe end Useful and informative The Handy Physics Answer Book also includes a glossary of commonly used terms to cut through the jargon a helpful bibliography and an extensive index Ideal for students curious readers of all ages and anyone reckoning with the essential questions about the universe This handy resource is an informative primer for applications in everyday life as well as the most significant scientific theories and discoveries of our time And we promise no whiteboard needed **In Praise of Simple Physics** Paul Nahin,2016-05-24 Fun puzzles that use physics to explore the wonders of everyday life Physics can explain many of the things that we commonly encounter It can tell us why the night is dark what causes the tides

and even how best to catch a baseball With *In Praise of Simple Physics* popular math and science writer Paul Nahin presents a plethora of situations that explore the science and math behind the wonders of everyday life Roaming through a diverse range of puzzles he illustrates how physics shows us ways to wring more energy from renewable sources to measure the gravity in our car garages to figure out which of three light switches in the basement controls the light bulb in the attic and much much more How fast can you travel from London to Paris How do scientists calculate the energy of an atomic bomb explosion How do you kick a football so it stays in the air and goes a long way downfield Nahin begins with simpler problems and progresses to more challenging questions and his entertaining accessible and scientifically and mathematically informed explanations are all punctuated by his trademark humor Readers are presumed to have some background in beginning differential and integral calculus Whether you simply have a personal interest in physics influence in the world or you re an engineering and science student who wants to gain more physics know how this book has an intriguing scenario for you *In Praise of Simple Physics* proves that if we look carefully at the world around us physics has answers for the most astonishing day to day occurrences

States of Matter Fiona Bayrock,2006 Introduces the composition of matter its changing states and the effects of changing between states Provided by publisher

Mad About Modern Physics Franklin Potter,Christopher Jargodzki,2008-05-02 More mind bending fun in physics The sequel to the popular *Mad About Physics* *Mad About Modern Physics* promises endless hours of entertaining challenging fun With detailed answers to hundreds of questions Are fluorescent lights dangerous to your health What is a fuel cell the book is also a treasure trove of fun science trivia Featuring diagrams and illustrations throughout this fascinating physics compendium will educate and captivate students teachers and science buffs alike FRANKLIN POTTER Ph D is a retired physicist from the University of California at Irvine He continues to conduct research in elementary particle physics and cosmology as well as consult in physics education CHRISTOPHER JARGODZKI Ph D is Professor of Physics at Central Missouri State University He is also founder and director of Center for Cooperative Phenomena He was born and raised in Poland and received his Ph D in quantum field theory from the University of California at Irvine

[The Handy Physics Answer Book](#) Paul W Zitzewitz,2011-02-01 Eschewing the usual mathematical explanations for physics phenomena this approachable reference explains complicated scientific concepts in plain English that everyone can understand Tackling the big issues such as gravity magnetism sound and what really happens in the Large Hadron Collider this engaging look at physics also spells out why cats always land on their feet why people appear to have red eyes in photographs and the real danger of looking at an eclipse For everyone who ever wondered how a light bulb works or how squirrels avoid electrocution on the power lines this handbook supplies answers on the physics of everyday life and examines the developments in the exploration of subatomic particles In addition to the question and answer section an addendum of facts about physicists explains what the Nobel prize is and who has won it and tells the story of the scientist who was incarcerated for agreeing with Copernicus Answers more than eight hundred questions about

physics ranging from everyday life applications to the latest explorations in the field

Physics Test Questions With Answers Martin Nikolo,2003-07-01 This is a collection of over 700 mostly multiple choice physics questions with answers The questions have been used at a magnet middle school and in introduction to physics classes at St Louis university they are either conceptual or algebra based questions covering all basic areas of physics mechanics sound heat optics electricity and magnetism The text also contains a brief review of each topic The book is primarily intended for high school and college market

Complete Solutions and Answers for Introductory Physics John Mays,2018-08-15

Commonly Asked Questions in Physics Andrew Rex,2014-02-12 In the 300 years since Newton s seminal work physics has explained many things that used to be mysterious Particularly in the last century physics has addressed a range of questions from the smallest fundamental particles to the large scale structure and history of the entire universe But there are always more questions Suitable for a wide aud

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[Physics Is...: The Physicist Explores Attributes of Physics](#) F. Todd Baker,2016-12-21 He s back The physicist returns with an entirely new compilation of questions and answers from his long lived website where laypeople can ask questions about anything physics related This book focuses on adjectives practical beautiful surprising cool frivolous instead of nouns like the first two books atoms photons quanta mechanics relativity The answers within Physics Is are responses to people looking for answers to fascinating and often uninformed questions It covers topics such as sports electromagnetism gravitational theory special relativity superheroes videogames and science fiction These books are designed for laypeople and rely heavily on concepts rather than formalism That said they keep the physics correct and don t water down so expert physicists will find this book and its two companion titles fun reads They may actually recognize similar questions posed to them by friends and family As with the first two books Physics Is ends with a chapter with questions from people who think that The physicist is a psychic and from people who think they have the answers to life the universe and everything

Advanced Questions on Everyday Physics, with Answers Susan

Williams,1993 **The Handy Physics Answer Book** P. Erik Gundersen,1999 Answers more than 800 questions about physics from gravity and magnetism to matter and light Physics National Learning Corporation,2018 The Test Your Knowledgea Series asks What Do You Know Abouta various subjects or areas of personal interest **1001 Questions and Answers on Physics Or Natural Philosophy** A schoolmaster,1895 Geek Physics Rhett Allain,2015-04-14 Rhett Allain writes the popular Dot Physics blog for Wired and in this book he takes a longer smarter look at his most popular topics from the purely fun How much bubble wrap would you need to safely jump off a 6th floor building to the completely mind boggling Why does a mirror reverse left to right but not top to bottom Allain is a physics professor and he s become very good at finding physics questions buried in the latest movie video game viral video or news hook Each chapter will not only cover interesting subjects like lightsabers and McDonald s drive thrus but use those questions to teach readers basic physics concepts He ll explore questions like Is Angry Birds using real physics Does a heavier truck make a better snow plow What if everyone on earth jumped at the same I time How many dollar bills would it take to stack them to the moon Often the way he gets to the answer is more interesting than the answer itself **Physics** Anthony Tibbertsma,Tony Tibbertsma,1991 The Flying Circus Of Physics With Answers Jearl Walker,2008-07-30 This new version now contains answers to all the over 600 stimulating questions Walker covers the entirety of naked eye physics by exploring problems of the everyday world He focuses on the flight of Frisbees sounds of thunder rainbows sand dunes soap bubbles etc and uses such familiar objects as rubber bands eggs tea pots and Coke bottles Many references to outside sources guide the way through the problems Now the inclusion of answers provides immediate feedback making this an extraordinary approach in applying all of physics to problems of the real world Hiding Under the Covers Listening for the Monsters The Walrus Speaks of Classical Mechanics Heat Fantasies and Other Cheap Thrills of the Night The Madness of Stirring Tea She Comes in Colors Everywhere The Electrician s Evil and the Ring s Magic The Walrus Has His Last Say and Leaves Us Assorted Goodies

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 - Chapter 2: Essential Elements of Knotts Physics Fun Day Answers
 - Chapter 3: Knotts Physics Fun Day Answers in Everyday Life
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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Knotts Physics Fun Day Answers.

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Table of Contents Knotts Physics Fun Day Answers

1. Understanding the eBook Knotts Physics Fun Day Answers
 - The Rise of Digital Reading Knotts Physics Fun Day Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Knotts Physics Fun Day Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Knotts Physics Fun Day Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Knotts Physics Fun Day Answers
 - Personalized Recommendations
 - Knotts Physics Fun Day Answers User Reviews and Ratings
 - Knotts Physics Fun Day Answers and Bestseller Lists
5. Accessing Knotts Physics Fun Day Answers Free and Paid eBooks
 - Knotts Physics Fun Day Answers Public Domain eBooks
 - Knotts Physics Fun Day Answers eBook Subscription Services
 - Knotts Physics Fun Day Answers Budget-Friendly Options
6. Navigating Knotts Physics Fun Day Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Knotts Physics Fun Day Answers Compatibility with Devices
 - Knotts Physics Fun Day Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Knotts Physics Fun Day Answers
 - Highlighting and Note-Taking Knotts Physics Fun Day Answers
 - Interactive Elements Knotts Physics Fun Day Answers
8. Staying Engaged with Knotts Physics Fun Day Answers

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Knotts Physics Fun Day Answers
9. Balancing eBooks and Physical Books Knotts Physics Fun Day Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Knotts Physics Fun Day Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Knotts Physics Fun Day Answers
- Setting Reading Goals Knotts Physics Fun Day Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Knotts Physics Fun Day Answers
- Fact-Checking eBook Content of Knotts Physics Fun Day Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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