

Balloon Toss Lab

Teacher's Guide

Topic:

Momentum and Collisions

The following information is provided to the student:

Question:

What variables affect the impact force in a collision and in what manner do they affect the force?

Purpose:

To investigate the effect of three variables (mass, collision time, velocity change) upon the impact force in a collision.

A complete lab write-up includes a Title, a Purpose, a Data section, a Conclusion and a Post-Lab Questions section. The Data section should include some observations of the effect of varying mass, collision time and velocity change upon the impact force on a balloon. The Conclusion should respond to the question raised in the Purpose. The provided Post-Lab Questions should be completed and taped into your lab notebook.

Materials Required:

Water balloons; lab coat; outdoor space (or space which can become wet).

Description of Procedure:

Prior to class, several otherwise identical water balloons are filled with varying amounts water: a couple should be overfilled, a couple should be under filled, and the rest could be filled with a normal amount of water. The class is taken to an outdoor space to make observations of the following teacher demonstrations:

1) A water balloon is thrown approximately 10 feet up into the air, caught by the teacher and observed to not break. The same balloon is thrown 30-40 feet up into the air, caught by the teacher and observed to break. 2) A not very massive (under filled) water balloon is thrown about 20 feet up into the air, caught by the teacher and observed to not break. A very massive (overfilled) water balloon is thrown about the same distance up into the air, caught by the teacher and observed to break. 3) A water balloon is thrown approximately 50 feet up into the air, caught by the teacher using a cradling motion, and observed not to break. The same water balloon is thrown about the same distance up into the air, allowed to hit the ground and observed to break. Students record their observations, identifying the independent variable (m , F , Δt), the constant quantities, and the dependent variable for each demonstration.

Alternative Materials and Procedure:

Rather than conducting this activity as a demonstration lab, students could participate in a balloon toss contest. After pairing up, students form two long lines 1 meter apart facing each other and directly across from their partner. One student tosses the balloon to his/her partner. If the balloon is caught without breaking, then the team remains in the contest; any group who breaks the balloon is eliminated from the contest. All successful teams must now back up 1 meter. The balloons are then tossed back to the other partner. Once more if the balloon is caught without breaking, then the team remains in the contest. All successful teams once more back up one meter, placing them even farther apart. The

The Balloon Toss Lab Answers

Glenn O. Turner, Mark Bruce Rosin



The Balloon Toss Lab Answers:

If Life's An Experiment, I'm A Lab Rat , *Solids, Liquids, Guess Who's Got Gas?* Michelle Houts, 2017-10-03 Autumn has arrived and at Granite City Elementary School everyone is gearing up for the biggest and best event of the year the Harvest Festival The whole school is excited about the games the contests the food and most of all the costumes Everyone except Lucy She doesn't like dressing up and has no desire to be a fairy princess or rock star even for one day But Lucy is excited about the new science unit Miss Flippo has started the states of matter Lucy and her friends understand solids and liquids They're easy But gasses are more difficult to grasp When the class goes on a field trip to an orchard and Stewart Swinefest eats too many apples and gets a serious stomachache Lucy suddenly understands that even if you can't see gasses they can fill space and expand and even make you move And with Stewart feeling better she has a really great idea for her Harvest Festival costume too The second book in a new chapter book series from IRA Children's Book Award winner Michelle Houts *Solids Liquids Guess Who's Got Gas* draws on STEM themes and is aligned with curriculum guidelines to bring a love of science to young readers inspiring them to start their own labs and explore their world **Language Power: Grades 6-8**

Level B Teacher's Guide Elizabeth C. McNally, 2012-10-30 **Inquiry: The Key to Exemplary Science** Robert Yager, 2009-06-17 Fundamentals of Biomechanics Duane Knudson, 2013-04-17 *Fundamentals of Biomechanics* introduces the exciting world of how human movement is created and how it can be improved Teachers coaches and physical therapists all use biomechanics to help people improve movement and decrease the risk of injury The book presents a comprehensive review of the major concepts of biomechanics and summarizes them in nine principles of biomechanics *Fundamentals of Biomechanics* concludes by showing how these principles can be used by movement professionals to improve human movement Specific case studies are presented in physical education coaching strength and conditioning and sports medicine

Recognizing and Surviving Heart Attacks and Strokes Glenn O. Turner, Mark Bruce Rosin, 2008 Drawing on fifty years of patient care and information from the Missouri Heart Program Turner explains how to recognize all of the early warning signs of heart attacks and strokes including little known signs and how important it is to seek immediate treatment to save lives and prevent damage to the heart Provided by publisher *Pandora's Lab* Author TBD, 2017-04-04 What happens when ideas presented as science lead us in the wrong direction History is filled with brilliant ideas that gave rise to disaster and this book explores the most fascinating and significant missteps from opium's heyday as the pain reliever of choice to recognition of opioids as a major cause of death in the U.S. from the rise of trans fats as the golden ingredient for tastier cheaper food to the heart disease epidemic that followed and from the cries to ban DDT for the sake of the environment to an epidemic level rise in world malaria These are today's sins of science as deplorable as mistaken past ideas about advocating racial purity or using lobotomies as a cure for mental illness These unwitting errors add up to seven lessons both cautionary and profound narrated by renowned author and speaker Paul A. Offit Offit uses these lessons to investigate

how we can separate good science from bad using some of today's most controversial creations e cigarettes GMOs drug treatments for ADHD as case studies For every Aha moment that should have been an Oh no this book is an engrossing account of how science has been misused disastrously and how we can learn to use its power for good *Investigating Third Grade* ,2017-02-06 The Investigating Third Grade workbook encourages children to solve puzzles find evidence and crack a case using math and language arts skills The activities build essential skills such as vocabulary grammar multiplication division Perfect for at home or on the go Engaging third graders in learning at home can be a challenge Investigating Third Grade makes it easy Unlike other math and language arts activity workbooks this educational mystery workbook includes 200 unique activities a special Detective's Notebook and a mystery story Young sleuths will develop the math language arts and problem solving skills they need for success in and out of the classroom Far from the typical skill and drill workbook each unique title in the Investigating series helps sharpen school skills while children solve an intriguing whodunit mystery story Captivating and creative the series offers a unique learning experience that appeals to a child's natural curiosity **The Science Teacher** ,1996 Some issues are accompanied by a CD ROM on a selected topic *Still Rolling* Dwight Little,2023-08-16 Dwight Little's Hollywood career includes directing and producing major motion pictures for multiple studios acclaimed television series and even video games In this memoir he takes readers along on a movie making adventure that is by turns funny and brutally honest There are many on set interactions with well known producers and stars along with detailed descriptions of film shoots from the wilds of India to the banks of the River Kwai Included are tales from the jails of Madrid to the jungles of Fiji and the cold war streets of Budapest The work seamlessly connects the Golden Age of Hollywood to the highly successful premium television of today Make or break creative battles Hollywood intrigues unpredictable studio executives and temperamental actors are all documented in colorful detail Whether the reader is an aspiring filmmaker or just a movie lover this book has it all including a unique insight into television directing in the new streaming age and 41 photos many on set **Boys' Life** ,1979-01 Boys Life is the official youth magazine for the Boy Scouts of America Published since 1911 it contains a proven mix of news nature sports history fiction science comics and Scouting *The Key to Technical Translation* Michael Hann,1992 This handbook for German English German technical translators at all levels from student to professional covers the root terminologies of the spectrum of scientific and engineering fields The work is designed to give technical translators direct insight into the main error sources occurring in their profession especially those resulting from a poor understanding of the subject matter and the usage of particular terms to designate different concepts in different branches of technology The style is easy to read and suitable for nonnative English speakers and translators with no engineering experience Volume 1 presents a comprehensive systematic description of the basic concepts underlying all branches of technology Electrical Mechanical and Chemical Engineering Materials Science Electronics Nucleonics Aeronautics Computers Automobiles Plastics and other important fields Volume 2 expands this

terminology with the aid of a Technical Thesaurus and a set of structured bilingual dictionaries which draw attention to specific English German errors usage of technical vocabulary and to collocations of general vocabulary in engineering contexts The two volumes combine 3 major areas 1 Technical Translation 2 General Linguistics and 3 Computational Lexicography possibly indirectly marking the birth of a new discipline Technical Linguistics The book is designed for practical as well as academic use for translator trainers practicing translators applied linguists and professional engineers and scientists working with English German documentation There is so much material there that the books will not only be wanted by English German English translators but the English basis on its own will be attractive to other language orientations involving English Juan C Sager UMIST Manchester **Nuclear Science Abstracts** ,1970 Beyond World'S
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Johnston,2005-01-04 Introducing Kendra Ballantyne Former high powered litigator temporarily on the outs Hollywood pet
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a freelance pet sitter When her clients start getting knocked off one by one Kendra fears she s being set up Aided by sexy
detective Jeff Hubbard she s got to find out why and fast This killer s animal instincts are downright dangerous

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**The Balloon Toss Lab Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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