

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

Wolfgang Guggemos

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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 **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 **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 *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 Recognizing and Surviving Heart Attacks and Strokes Glenn O. Turner,Mark Bruce

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