

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

Michael Rajnik



The Balloon Toss Lab Answers:

Reviewing **The Balloon Toss Lab Answers**: Unlocking the Spellbinding Force of Linguistics

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 actually astonishing. Within the pages of "**The Balloon Toss Lab Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt 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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