

# Egg Drop Contest

In this contest, a team of three to two students will compete to design a device that will protect an egg from cracking or breaking when it is dropped from a height (about 20 ft.) towards a target as slow as possible. The goal is to build a device with the least weight and the shortest dimensions, and will land as close to the target as possible.



## MATERIALS AND THE SHOT:

There will be prizes in budgets of \$1,000.00 and you will be able to purchase items that you need from the equipment store. You cannot exceed your budget. You are permitted to bring items from home, as they meet the specifications of the project.

The device cannot have a dimension (diameter or diagonal) in any direction, longer than 120 centimeters. This means that the device must be able to fit inside a sphere with a 120 cm diameter. If the device has wings or a parachute, the weight brought will be measured with the wings or parachute fully expanded.

Your teacher will supply students with eggs. 16 pvc which to put your egg, in order to protect the device, at least 1 square cm of the egg's surface must be visible from the outside. Any additional material like tape or glue to hold or hold together after the egg is enclosed will be included in the weight of the device.

## SUGGESTED MATERIALS:

Card board, paper cups, rubber bands, heavy paper, balloons, plastic, paper towels, ribbon, aluminum foil, cotton balls, tape, foam guitars, string, etc.

## CALCULATIONS:

Mathematically, the following statements can be made, where "d" means "the change in":

$$v = d/t$$

$$\Delta t = \frac{1}{2} gt^2$$

$$d = \frac{1}{2} gt^2$$

$$F = ma$$

# Algebra Egg Drop Project

**Jacqueline Ancess**

## **Algebra Egg Drop Project:**

Beating the Odds Jacqueline Ancess, 2003-01-01 Beating the Odds tells the story of how teachers students and leaders in three schools transcend obstacles to beat the odds of failure and achieve impressive success The schools a suburban vocational technical school an urban school for immigrant new English language learners and an urban second chance school for students who have failed elsewhere all operate as communities of commitment With accessible language multiple examples and rich anecdotes Ancess describes how these schools are organized how they use adult student relationships to leverage high levels of student performance how they enact teaching and learning for making meaning and how they confront the obstacles they encounter Ancess also discusses the systemic conditions for sustaining and scaling up schools such as these three The high schools described in this volume Urban Academy International High School and Hodgson Vocational Technical have come to represent models of successful reform despite their challenging student populations In addition to telling their story this book provides samples of school documents that illustrate the day to day operation of the schools and can be adapted by practitioners to fit their own circumstances

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    **Me and Myn** Samuel Rutherford Crockett,1907      Bulletin - San Francisco Medical Society San Francisco Medical Society,1958      **Bunting and Lyon's Guide to Private Independent Schools** Bunting & Lyon, Incorporated,Bunting and Lyon,1980-05      **Educational Psychology** Robert E. Slavin,1994      **Sunny Side Up** Frances Hurley Grimes,1984-12  
    Everyday Mathematics Jean F. Bell,University of Chicago. School Mathematics Project,2007 The core of the Everyday Mathematics program for Grades 1-6 the Teacher's Lesson Guide provides teachers with easy to follow lessons organized by instructional unit as well as built in mathematical content support Lessons include planning and assessment tips as well as multilevel differentiation strategies to support all learners      **Who's Who Among American High School Students** Educational Communications, Incorporated,Joe Eassociates Publ Krouse,1996-12 Honoring Educational Achievement among American High School Students

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