

# Egg Drop Contest

In this contest, a team of one to two students will construct a device that will enclose and protect an egg from cracking or breaking when it is dropped from a certain height (about 20 ft.) towards a target on the ground. 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 DESIGN:

You will be given a budget of \$1000.00 and you will be able to purchase items that your teacher has brought to the class. You cannot exceed your budget. You are permitted to bring items from home as long as they meet the specifications of the project.

The device cannot have a dimension (diameter or diagonal in any direction) longer than 60 centimeters. This means that the device must be able to fit inside a sphere with a 60 cm diameter. If the device has wings or a parachute, the longest length will be measured with the wings or parachute fully expanded.

Your teacher will supply medium sized eggs. If you wish to put your egg inside a protective 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 close or hold it together after the egg is enclosed will be included in the weight of the device.

## SUGGESTED MATERIALS:

Trash bags, paper cups, rubber bands, heavy paper, balloons, Kleenex, paper towels, cotton, aluminum foil, coffee filter, tape, foam peanuts, string, etc.

## CALCULATIONS:

Mathematically, the following statements can be made, where "Δ" means "the change in".

$$v = d / t$$

$$d = \frac{1}{2} g t^2$$

$$a = \Delta v / \Delta t$$

$$F = ma$$

# Algebra Egg Drop Project

**Dorland**



## **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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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Algebra Egg Drop Project** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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