TRIPLE EGG DROP
UC IRVINE CENTER
ELEMENTARY MESA DAY 2010

GRADE LEVEL: 3rd – 5th GRADE
TYPE OF COMPETITION: TEAM
COMPOSITION OF TEAM: 1-3 STUDENTS PER TEAM
MAXIMUM NUMBER OF ENTRIES: 3 TEAMS PER EVENT PER ADVISOR PER SCHOOL

Purpose: To build a container of minimal weight and size which will keep three (3) medium eggs from breaking after a fall from a height of a two-story building.

Student Objective: To design and build an apparatus that can keep three eggs from breaking after being dropped from a height of a two-story building.

Apparatus Materials: Straws, craft sticks, scotch tape, masking tape, paper (any type), aluminum foil, plastic wrap, plastic bags (any type), cotton, and string (any type). No prefabricated packing materials can be used (i.e. packing peanuts, bubble wrap).

Rules:

1) Only large, fresh, raw, white, chicken eggs may be used and only the apparatus materials described above may be used for the apparatus. IMPORTANT: The apparatus must be able to open in order to place the eggs inside. The 3 eggs will be provided by MESA and will be placed in the apparatus at the competition prior to the drop.
2) No material may be added to the egg. Any crack, fracture, or chip will be considered a break.
3) Judges will drop apparatus and instructions on how to drop the apparatus will not be accepted. Hence, it is recommended that the apparatus be symmetrical at all angles to ensure a similar drop for all scenarios.
4) Team numbers will be announced before each drop but teams need not be present.
5) After registration is complete, tampering with any package in any way by any person will be cause for immediate disqualification of that person's team and zero points awarded.
6) The package must pass through a standard sized hula-hoop in all directions such that the package does not change the shape of the hula hoop. The hula hoop must be turned in all directions or angles, including diagonally, as the package is passed through the hula-hoop. Any apparatus that fails the “Hula Hoop Test” will be disqualified.

Scoring:

1) Each unbroken egg will be awarded 100 points. Broken eggs will not receive any points.
2) A numerical value “N” will be assigned to each apparatus. This value will be based on its mass, volume, and longest dimension.
3) Team with most points will be the winner.
4) Tie Breaking Procedure: In the event of tie, the team with the lowest numerical value “N” will be declared the winner.

Awards: Top three teams will be awarded medals for their respective places.