

SAFE LANDING (EGG DROP COMPETITION)

Your mission—if you choose to accept it—is to construct a parachute that will deliver an egg safely to the ground when dropped. No fancy materials allowed!

Students will design and construct a device (parachute) that will deliver an egg safely to the ground when dropped. **Student should bring all materials including egg required for contest.** This phase is to allow student to optimize their constructs. Winners will be determined by the scoring formula explained below. The three highest scoring entries will be awarded a prize (**1st Prize Rs. 7000/-, 2nd Rs 5000/- & Rs. 3000**). The Egg Drop Challenge is a test of creativity and understanding of physics.

Rules:

- **Team:** Four participants in each team.
- Students must design and construct a device. **Commercially constructed containers are not allowed.**
- All scores will be determined using the Egg Drop Competition Official Rules equations. Any egg drop that results in the egg breaking receives a score of zero. All devices will be dropped from the same height.

Judging Criteria:

1. The egg remains intact. If any of the eggs contents spills, the design is disqualified.
2. The egg which survives the safe fall is considered as winner. If there is more than one device which qualifies to be the winner, the judges will determine a winner based on the following.
 - a. **The size and weight of the design:** Most points are awarded for the minimum size and weight.
 - b. **Ease of operation:** Most points are awarded to the device which is the easiest to load.
 - c. **Creativity and Engineering Practice**
 - d. **Durability of the Device:** Most points are awarded to the device with the least damage by the end of the competition.
 - e. **Target zone points**

SCORING:

$$S = E \left[\frac{1}{W} + T \right]$$

E = Egg Integrity Factor (1 if not cracked or 0 if cracked) , W = Weight in Grams , T = Drop zone target points



Arena (Target zone)

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Any science student can apply .