

Egg Drop

Description:

The objective is to have a two-person team construct a package to protect an egg (from breaking) to be dropped free fall from a high spot selected by the tournament director.

Number of Participants: 2

Approximate Time: 45 minutes

The Competition:

1. Students will be provided with a large room temperature raw egg in a snack size zippy bag. The zippy bag is to protect students if egg is broken. It is not to be intentionally used as a design advantage or part of their egg protection device. Students are responsible for the egg during design and testing. Eggs must remain inside the bags.
2. Students will be provided with 20 biodegradable packing peanuts, 2 sheets of 8 ½ x 11 copy paper and 1 meter of tape to construct an egg protection device. Scissors will be provided. No other materials may be used.
3. The package will be dropped free fall by one student from a height of 2-3 meters. The second student may act as a spotter directing the drop location from the floor. There will only be one drop with a time limit to prepare for the drop from the time the judge says to begin.
4. The drop area will be approximately 60 cm x 60 cm tarp over the floor with a target in the center of the area.

Scoring:

Eggs that do not break or show cracks will be ranked first. Those that break or crack will be ranked after those that do not. The farthest distance of any part of the package to the center of the target will determine the score. The package with the shortest distance wins. Time will be used as a tie-breaker.