

EGG DROP

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

Number of Participants: 2

Approximate Time: 20 minutes

THIS IS A PREBUILT EVENT

The Competition:

1. All loading of Large, supervisor-inspected Grade A eggs must be completed 30 minutes prior to the beginning of the event. Students are responsible for the egg during loading, dropping and unloading. The student must hand the egg to the supervisor once the drop is complete. Each package **must** be labeled with **team** name and number.
2. The package size and weight limitation is no more than 20 cm on a side and no more than 1 kg. Glass and metal may not be used, **excluding the mass of the egg**. The package must be constructed by the participants and brought to the tournament. The package may not contain anything that would aid in the package adhering to the target.
3. The package will be dropped free fall by one student from a height determined by the tournament director and announced **prior to the tournament**. There will be only one drop with a time limit of three minutes to prepare for the drop from the time the judge says to begin. A plumb line may be used. Packages may be dropped through an aperture (provided by the supervisor).
4. The drop area will be approximately 60cm x 60cm and made of solid material (e.g., 1/2" plywood) with a target in the center of the area.

Scoring:

Eggs that do not break or show cracks will be ranked first. **A break or crack is defined as those eggs that leave a wet mark when rolled across a paper towel.** 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. Ties will be broken by the lighter package (without egg).