



Egg Drop Contest

Rationale

To create a device that can keep an unaltered, raw chicken egg intact when dropped from a certain height landing in the target.

Design Parameters

1. Size- No dimension may be larger than 25 cm.
2. Mass- 100 grams
3. No material may be used that can be harmful to participants or spectators. This includes glass.
4. It must be possible to remove the egg from the device after drop without breaking it.
5. The device must fit a Grade A large egg.
6. No more than a \$100.00 may be spent on device.

Testing Conditions

1. Containers must be constructed prior to the school day of testing.
2. A representative from each student lab group will bring the assembled container containing an egg to the instructor. All dimensions will be measured to ensure that none exceed the 25 cm maximum. The mass of the container with eggs will be determined.
3. A representative from the student lab group will drop the container (with egg) from designated height. A plastic tray will be provided to catch the container. Another representative from the lab group will be positioned next to the tray. You do not want the container to bounce after landing!
4. After the drop, the container will be opened. A representative of the student lab group will remove each egg. Each will be examined for cracks or breakage.
5. Student lab groups are responsible for cleaning up and removing all items from the lab area.

Point Distribution

1. Performance (group grade)
 - No eggs broken at initial height *= 50 pts
 - Exceeding maximum dimension results in a loss of ten points
 - Exceeding maximum mass results in a loss of ten points
 - Missing plastic target results in loss of ten points

*Once initial height has been performed, a higher height (still 50 pts) will be selected if there is a tie. This will continue until there is only one winner or no more than two.