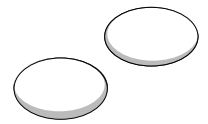


Naked Egg Drop



Challenge: To create a container that will catch a raw egg and prevent it from breaking.

Requirements:

- (1) The container must meet be under than 50 cm (approximately 19.5 inches) in width or length.
- (2) The container cannot be made from glass (including fiberglass), metal, or wood materials.
- (3) All parts of the container must remain inside the container during and after the drop. A drop that results in “lost” materials will be given a score of zero for that trial.

Competition:

Eggs will be dropped from heights not to exceed 4 meters (a little more than 12 feet) established by the judges on the day of the competition. Members will have the choice of selecting their drop height for each trial. For safety reasons, all participants must wear safety goggles at drop time. Goggles will be provided by the judges.

Members will be responsible for centering their platform below the drop site and dropping the egg. A plumb line will be provided by the judges to help members center their containers, but must be removed before the drop. Each team will be allowed 2 trials (or drops). Teams may complete both drops from the same height or drop once from both heights. The best score will be considered for the final team score.

Grade A Large eggs will be provided by the judges. Club members will be allowed to choose their egg. Once the egg has been selected, members are responsible for the egg from that point on. If the egg breaks before the drop is completed, one additional egg will be provided and 10 points will be deducted from the final score. A team may receive no more than two eggs for each trial.

Scoring:

All containers will be measured at the time of registration. The judges will record the length, width, and height of the container. Measurements will be taken from the highest or widest points. Any concerns with the measurements must be brought to the judges attention at the time of registration.

Drops that result in broken eggs will receive a zero score. Eggs are considered broken if they leave a wet spot on a paper towel.

Scores will be calculated by dividing the height of the drop point by the height of the container. The highest score will be declared the winner. (HINT: Try to create the shortest container that will catch an egg and keep it from breaking.)

Examples:

Team Super Egg created a successful container that is 6 cm tall. If the drop height is 300 cm, their team score would be 50 points ($300 \div 6$).

The container for Team Egg Heads prevented the egg from breaking and measured 12 cm in height. If the drop height was 300 cm, their team score would be 25 points ($300 \div 12$).

Naked Egg Drop Score Sheet

Name(s): _____

Container Measurements:

L = _____ W = _____ H = _____

Are the materials acceptable? Yes or No

Trial 1: Egg is not broken Drop Height = _____

Egg is broken Score = _____

Trial 2: Egg is not broken Drop Height = _____

Egg is broken Score = _____

Naked Egg Drop Score Sheet

Name(s): _____

Container Measurements:

L = _____ W = _____ H = _____

Are the materials acceptable? Yes or No

Trial 1: Egg is not broken Drop Height = _____

Egg is broken Score = _____

Trial 2: Egg is not broken Drop Height = _____

Egg is broken Score = _____

Naked Egg Drop Score Sheet

Name(s): _____

Container Measurements:

L = _____ W = _____ H = _____

Are the materials acceptable? Yes or No

Trial 1: Egg is not broken Drop Height = _____

Egg is broken Score = _____

Trial 2: Egg is not broken Drop Height = _____

Egg is broken Score = _____