

EVENT 5: THE EGG CATCHER

OBJECTIVE: To construct a device (catcher) of minimum height into which a raw egg will be dropped from a height of not more than 14 feet and that will enable the egg to survive intact (uncracked).

RULES:

- a. The catcher is to be designed and built by the team from household materials and/or materials available from hardware stores and/or from art/hobby supply stores.
- b. A medium size egg will be placed by the team into a clear Ziploc or similar brand sandwich plastic bag with dimensions of: 16.5 cm X 19.9 cm.
- c. The egg may not be altered in any way nor surrounded with any material other than the aforementioned plastic bag.
- d. The egg will be dropped from a starting height between 11 and 14 feet. The dropping height will be announced the day of the event.
- e. The egg must come to rest in the catcher and be able to be retrieved for inspection.
- f. If needed, the catcher must be designed so that it can be reused for a second attempt.
- g. No practice drops are permitted the day of the event.
- h. Teams are to provide their own medium size eggs.

COMPETITION AND SCORING:

- a. A member of the team will drop the egg.
- b. The egg must freely fall in a vertical path towards the egg catcher.
- c. If the egg cracks during the first trial or misses the catcher, a second attempt will be allowed.
- d. The team will have 30 seconds to repair their catcher if a second attempt is needed.
- e. No modifications are permitted to the catcher for a second attempt.
- f. The height of the catcher will be taken as the distance from the floor upon which the device is placed to a horizontal plane that intersects the highest point on the catcher.
- g. If a tie occurs, the catcher whose maximum width is the smallest will win. (Maximum width is measured between two parallel vertical planes that enclose the catcher at largest point of separation between planes.)
- h. If the tie breaking procedure is used, the winning team will have their catcher's height decreased by 10%. Their adjusted height will then become the new winning catcher height.

DISQUALIFICATION SCORE If the egg breaks *but the yolk remains intact*, 20 points less than the lowest score will be awarded for a qualifying egg catcher designed in the spirit of the rules.

$$\text{SCORE} = \frac{\text{Winning catcher height}}{\text{Team's catcher height}} \times 100$$

Updates to the rules and Forum discussion / questions with answers are available by going to the NJAAPT website: njaapt.wildapricot.org (top menu, "Events" and "Forum"). It is the team's responsibility to periodically check in or inquire about changes and clarifications to the rules.