EGG DROP: Nebraska Trial Event 2020 B/C

DESCRIPTION: Teams will build a device, on site with provided materials, to protect an egg dropped from a height and land at a designated point.

A TEAM OF UP TO: 2  IMPOUND: NO  EYE PROTECTION: B

EVENT PARAMETERS:

a. Each team will build a device to protect an egg dropped from a height.
b. The Event Supervisor will provide the materials and the eggs.

CONSTRUCTION PARAMETERS:

a. The device must be built on site in 25 minutes prior to dropping the devices.
b. The device may use any/all of the provided materials, but not the plastic bag.
c. The team must accept the egg and then protect it until time to drop. Any team needing a second egg will have 10cm added to their score.
d. The device must be designed to protect the egg in the drop and to try to land at a designated spot. The spirit of the problem requires a protective device.
e. The materials provided are: 1 large egg, 5 popsicle sticks, 5 rubber bands, a piece of printer paper, a meter of masking tape. The egg will be prewrapped in plastic.

COMPETITION:

a. Teams will build their device with given materials in 25 minutes.
b. Teams will drop their device from a height.

SCORING:

a. After dropping their device, each team will pick up their device after it is measured for the distance score and test to see if it is broken or unbroken. An egg is deemed unbroken if it can rest on a paper towel and not leave liquid.
b. All unbroken eggs score above all broken eggs.
c. All eggs, broken or unbroken, will have their landing location measured from the designated landing point in centimeters (distance score). Any team requiring a second egg will have 10cm added to their distance score.
d. The unbroken egg closest to the designated landing point will be the winner.
e. All broken eggs will be scored (distance score) after all unbroken eggs.