Naked Egg Drop Competition Rules 2017

1. Participants will build an egg catching device that will prevent an egg from breaking when it is dropped into the device from a variable height. Egg Catchers are to be built at home and brought to the LCDS gymnasium on the night of Family Science Night. Egg catchers must be turned over to the judges no later than 5:45 pm on the night of competition. All egg catchers will be kept in a quarantine area up to the completion of testing. No further modifications may be made to an egg catcher after it is turned over to the judges for testing.

2. The egg catcher shall be constructed from only these materials: wood, cardboard, plastic, fabric, metal, styrofoam and paper. Tape or glue may be used to secure pieces of the device. The glue must be completely dry when the device is submitted for testing. All other materials, including anything glass (including fiberglass), any food or food ingredient, all powders (sand, flour, baby powder) and liquids (including water), pastes or gels that stay wet are prohibited. Materials that are engineered for cushioning effects (i.e. foam, pillow stuffing etc.) do not serve the spirit of the event, and therefore will not be allowed.

3. The maximum size of the egg catcher shall be 20 cm in three perpendicular dimensions (i.e. the egg catcher should fit inside a 20 cm x 20 cm x 20 cm box). Devices that exceed this size will not be tested and will be disqualified. Measurements will be taken by a judge or judge’s designee at the time of registration. Any concerns with the measurements must be brought to the judge’s attention at the time of registration.

4. The egg catcher shall be free-standing. The testing will occur on a tarp in the gymnasium. A spot which is directly under the egg drop release will be indicated on the tarp. Students will be responsible for placing their device on the tarp. No modifications may be made to the device functionality in between tests. A judge or judge’s designate will be responsible for dropping the egg into the device from the desired height.

5. A new, uncooked, room temperature Grade A large egg will be provided for each contestant. A judge or judge’s designee will select the egg from a crate of eggs purchased from the same supplier on the same day. All trials for a particular egg catcher will be done with the same egg. No replacement eggs will be provided. If an egg is broken between trials no more testing will be done.

6. The egg catcher devices will be tested at three heights TBD by the judges. The maximum drop height will be 15 feet. All devices will be tested at the lowest height. Those that qualify will then be tested at the second height, and so on. Egg catcher devices will not move on to the next level if one of the following occurs.
   - The egg breaks or cracks (if it wets a paper towel, it is broken)
   - The egg catcher is damaged to the point that it can no longer function as a free-standing device.

7. Prizes will be awarded in each of the four judging categories for 1st, 2nd and 3rd

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<tr>
<th>Preschool – 2nd Grade</th>
<th>6th Grade – 8th Grade</th>
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<td>3rd Grade – 5th Grade</td>
<td>9th Grade – 12th Grade</td>
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Egg catchers will be ranked by the highest successful egg drop height. In the case of a tie, a higher rank will be given to the device with the smallest height dimension.

Egg catchers with the largest Drop Ratio will be ranked higher. The Drop Ratio is the maximum undamaged egg drop height (cm) divided by the egg catcher height (cm).

8. To help keep our facility clean, we ask that devices that have “egg on their faces” (i.e. the egg broke in them) be placed in the trash bags provided at the competition.