

## 2020 Engineers Day Competition: Egg Drop Rules

### **Drop Distance = 28.5 ft**

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1. Egg protection device must fit in a box with inside dimensions of 5" x 5" x 5". The box is provided by the UT-Martin Engineering Department. Remove your egg drop device from the box before the drop. A device that expands beyond the box dimensions will be subjected to an assessment to determine if it meets the Illegal Material 2(a) classification (below).
2. Illegal Materials:
  - a. Parachute(s), wings, streamers or other air resisting mechanisms
  - b. Glass
  - c. Spray foam or other hard setting materials.
  - d. Tape or glue directly attached to the egg.
  - e. Unsafe or hazardous materials
  - f. Peanut butter, shaving cream, or any similar messy material.
3. Winner will be the lightest protection device that allows the egg to survive the fall. The device will be weighed with the egg inside and the weight of the egg will be subtracted from the total.
4. Any number of differently designed egg drop devices per school are allowed.
5. Four or less members per team.
6. Egg must be removed from the device after the fall for inspection.
8. Egg must be one large raw unaltered chicken egg. UT-Martin Engineering Department will supply the eggs.
9. Eggs must be placed in a Zip-Lock plastic bag before the drop. UT-Martin Engineering Department will supply the Zip-Lock bags. Eggs placement will be observed by the judges.
10. Teams must clean the mess from a ruptured drop device or ruptured egg. Bring cleaning supplies. Severe weight penalties may be assessed to any team not bringing cleaning supplies.
11. Judges reserve the right to reject any unsafe entry or an entry that does not meet the spirit of the rules.

### **Notes:**

1. If you cannot remove your egg drop device from the 5" x 5" x 5" box in one minute or less, your egg drop device weight will be doubled.
2. If we have to disassemble the 5" x 5" x 5" box to remove your egg drop device, your weight will be tripled.