

National Science Olympiad 2015 – Bungee Drop C

Supervisors will record this information for each team & each team is encouraged to use this form as a **pre-tournament Checklist!**
Supervisors can also record team results on the excel Bungee Drop spreadsheet found at www.soinc.org

Team Number: C__ Team Name: _____

Student Names: _____ Final Score: _____

Event and Competition Parameters

2.a. Team provides only one “elastic” cord (to be used for both drops) that terminates with a closed metal ring approximately 1/2 to 1 inch in diameter that does not open. Y N

3.c. Elastic cord is impounded prior to posting the bottle’s length and total drop mass value and drop height(s). Y N

3.c. No physical alterations are made to the elastic cord once it has been impounded (marking drop locations on the cord before the drops is okay). Y N

3.c. “Self-limiting-brake” mechanisms such as a separate, parallel, non-elastic strand that “brakes” the fall of the mass with little to no rebound are not used. Y N

**DOES THE ELASTIC CORD SATISFY ALL EVENT AND COMPETITION PARAMETERS?
(IF N, PARTICIPATION POINTS ONLY)** 1. Y N

Others

3.c. Elasticity Test: Record the length, in cm, the bottom meter of the cord stretches to when suspended vertically with a single 500 g mass is attached to this section. 2. _____

3.c. Elasticity Test: Does the cord return to within 5 cm of its original length after the 500 g mass is removed? 3. Y N

A cord passes the Elasticity Test if the answer in 2. is ≥ 125 AND the answer in 3. is Y

Participation Points Only (i.e. Device cannot be judged) 4. Y N

Disqualified (notify the team and their coach as soon as possible) 5. Y N

Drop 1:

4.a. Distance between the lowest point of the bottle and the landing surface (plane) in cm 6. _____

4.b. Did the bottle touch the landing surface (plane)? 7. Y N

Drop 2:

4.a. Distance between the lowest point of the bottle and the landing surface (plane) in cm 8. _____

4.b. Did the bottle touch the landing surface (plane)? 9. Y N