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BUNGEE DROP

 DESCRIPTION: Each team will design one "elastic" cord to conduct two separate "drops" at a given height(s) and attempt to get a drop mass placed in a bottle as close as possible to, but without touching, a landing surface (plane).

A TEAM OF UP TO: 2

IMPOUND: Yes

TIME: approximately 15 minutes

2. EVENT PARAMETERS:

- a. Teams must provide one "clastic" cord to be used for both drops that terminates with a closed metal ring approximately 1/2 to 1 inch in diameter (e.g., a key ring) that will not open and may bring their own measuring devices, to confirm heights, length or mass during the time given for preparing their two drops.
- b. Supervisors will supply a drop mass (50-300 grams) that will be placed in a 500-591 mL plastic bottle and is the same for both drops, an attachment mechanism (book, clasp, carabiner, etc.) that will connect the team's bottom cord ring to the bottle and a top anchoring system/extended platform with a release mechanism (e.g., a clamp) to attach the top end of the elastic cord, which all teams must use. At Regionals, the mass will be in multiples of 25 grams, at State the mass will be in multiples of 10 grams, and at Nationals it may be any mass. The bottle's total mass value and length, including the attachment mechanism, will be posted immediately after impound.
- c. Supervisors must provide an accurate system for determining how close a team's device came to the landing surface (plane), and whether or not it touched. Some successful methods for determining the closeness of a drop to the landing surface (plane) include multiple spotters or digital video cameras. Possible methods for determining whether the device touched or broke the landing surface (plane) include a carbon paper drop area or a very fine powder landing area.

3. THE COMPETITION:

- a. The Drop: Teams will be given a total of 5 minutes to prepare their device in the holding area, followed immediately by 5 minutes to complete both drops.
- b. The drop heights: both "drop heights" will be between 2-5 meters (at Nationals the drop heights will be between 5-10 m). At Regionals and State the 2rd drop height may be the same or different. At National the drop heights will be different. The exact height from which the drop must occur will be verified by at least two separate measurements by the supervisor. The drop height values and drop instructions will be posted immediately after impound.
- c. Elastic cords must be impounded prior to posting the bottle's length and total drop mass value and drop height(s). No physical alterations may be made to the elastic cord once it has been impounded (with the exception of marking drop locations on the cord before the drops). Any team that fails the "elasticity test" will be allowed to compete, but will be ranked behind all teams which pass the test. The cord may consist of more than one material (contest rubber, nylon, latex tubing, thread, sewing elastic, metal springs, etc.) and more than one strand as long as it meets the elasticity test. The operational definition of clasticity for this event is: while being suspended vertically, the bottom meter of the cord must stretch to at least 1.25 meters when a single 500g mass is attached to this section and return to approximately its original length after the mass is removed. "Self-limiting-brake" mechanisms such as a separate, parallel, non-clastic strand that "brakes" the fall of the mass with little to no rebound are not permitted.

4. SCORING:

- a. The final score will be the sum of the distances between the lowest point of the bottle and the surface (plane) for each drop. The team with the lowest total distance for the two drops will be the winner.
- b. Teams with one drop that touches the landing surface (plane) will be ranked below those that have no touches. Teams with two touches will be ranked below those teams with one touch. Teams that failed the elasticity test will rank below all those that passed the elasticity test.
- c. If there is a tie, the team with the single best drop overall (closest to the landing surface (plane) on either drop) will win. Second tiebreaker is the cord with the greatest stretch in the elasticity test.

Recommended Resources: All reference and training resources including the Problem Solving and Technology CD are available on the Official Science Olympiad Store or Website at www.soinc.org

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web if the installation marks have disappeared put a new installation mark on the timing belt before removing each part em 110 2uz fe engine mechanical engine unit b using the crankshaft damper bolt turn the crankshaft to align the timing marks of the crankshaft timing pulley and oil pump body em approx 45 timing mark turn

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web align the timing marks of the camshaft with the mark plates of the timing chain and install the timing chain hint align the timing marks with the mark plates while turning the hexagonal service portion of the camshaft using a wrench 2 install chain tensioner slipper a install the chain tensioner slipper 3 install chain tensioner

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web rotate the crankshaft pulley two complete turns clockwise and check the timing marks if the timing marks are correct tighten the lock bolt for the tensioner to 20 to 34 n m 200 to 350 kgfcm for fe to 37 to 52 n m 380 to 530 kgfcm for f2 engine check the movement on the tension side of the timing belt

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