

2011 Junkyard Challenge State Finals Score Sheet (rev 04/04/2011)

Full School Name: _____

Full Student Names: _____

Impound Check	(✓/✗)
2.a. All materials in junk box with lid, outer length + width + height does not exceed 95.0 cm	
2.b.i Box has at least 1, no more than 5 plastic practice golf balls	
2.b.ii Box has at least 1, no more than 8 golf balls	
2.b.iii Box has at least 1, no more than 10 tennis balls	
2.b.iv Box has at least 1 cup and 1 plate	
<p>Remaining materials in box limited to:</p> 2.B.iv Styrofoam or paper plates, bowls, and cups 2.b.v paper or plastic straws/stir sticks no longer than 24 cm 2.b.vi popsicle/craft sticks and/or toothpicks 2.b.vii non-metallic string, line, thread, or tape 2. b.viii 8.5x11 paper (20# or less- no cardstock!) 2.b.ix rubber bands no larger than size #64 (1/4 inch wide) 2.b.x plastic bags 1 gallon or less 2.b.xi scissors	
6.a. Boxes that have violations are ranked after those that don't (Circle One)	Tier 1 or 2

Event leader reveals challenge to teams AFTER impound is complete

Category B General Rules	(✓/✗)
5.a. Team attempts challenge with correct ball type/number	
5.d Team cannot make adjustments to location of the target device	
5.a Team provides own container, plate & ball(s)	
6.a Structures that violate general rules are ranked after those that don't (Circle One)	
6.a. Boxes that have violations are ranked after those that don't (Circle One)	Tier 1 or 2

5.g.i Challenge B.1 – Elevated Ramp	
Is the ramp structure freestanding? If not Tier 2	Tier 1 or 2
Is the ramp elevated the entire distance? If not Tier 2	Tier 1 or 2
Is ramp touching or connected to collection container? If not Tier 2	Tier 1 or 2
At least one ball reaches or goes beyond the target distance?	
Shortest direct straight line distance between the closest successful starting point and the closest edge of the collection container	mm
Bonus: No of balls transported to and remain in the collection container?	
Tiebreaker: Tallest height of the Ramp measured at the highest successful starting point	mm

5.g.ii Challenge B.2 – Catapult	
Is the ramp structure freestanding? (May hold with one hand to hold base) If not Tier 2	Tier 1 or 2
Hits target on first impact?	
Device has a trigger to launch the ball? If not Tier 2	Tier 1 or 2
At least one ball reaches or goes beyond the target distance?	
Direct straight line distance between the closest edge of the catapult and the closest edge of the target plate	mm
Bonus: No of balls hit the target place?	
Tiebreaker: Shortest height of Catapult	mm

5.g.iii Challenge B.3 – Bouncer	
Is the ramp structure freestanding? (May hold with one hand to hold base) If not Tier 2	Tier 1 or 2
Hits target on first impact?	
At least one ball reaches or goes beyond the target distance?	
Direct straight line distance between the closest edge of the bouncer and the closest edge of the target plate	mm
Bonus: No of balls hit the target place?	
Tiebreaker: Tallest center point of the bouncing surface	mm

Final Tier (Circle One): Tier 1 Tier 2

Distance Score $D =$ mm

Bonus Points $B = D \times [N+1]$

Total Score = $D+B$

Final Score _____

Final Rank _____