

Ramp and Roll Score Sheet – 2021 (revised 3/26/20)

Impound Checklist

The ramp has a protective covering on the bottom to avoid scratching the floor. <i>If no, students may not impound, send them back to their home base to try and fix the problem</i>	Y / N
The box and ramp were impounded on time and are clearly labeled with the school/team name and designation.	Y / N
All materials for vehicle and tools fit in a box that is no greater than 33,000 cm ³ including the lid, which fits all the way on the box and closes completely.	Y / N
There is a clearly labeled Start Line on the ramp. <i>If no, allow students to designate one during impound and compete in Tier 1.</i>	Y / N

School Name: _____ **Team** _____ (Circle One): V JV1 JV2 JV3

Student Names: _____

NOTE: Any materials or tools that are not on the approved list will be removed before the competition and given back to the team at a later time. Any pre-assembled materials will be taken apart by the event leaders before the event. No penalty will be assessed for this.

Competition Checklist

		Run 1	Run 2
10.b.i	All energy to propel the vehicle comes from gravitational energy.	Y / N	Y / N
10.b.ii	Only a mechanical braking system is allowed (no remote control or tether).	Y / N	Y / N
10.b.iii	Only non-electronic sighting devices used.	Y / N	Y / N
10.b.iv	Vehicle has a fixed point extending from the front edge.	Y / N	Y / N
10.c.	Ramp/vehicle in ready to launch position fits within a 60cm x 60cm square.	Y / N	Y / N
10.c.i.	The ramp is freestanding and not held by the competitors.	Y / N	Y / N
10.c.ii.	Team did not adjust the ramp after impound.	Y / N	Y / N
10.c.iii.	Students released vehicle from designated, unaltered start line.	Y / N	Y / N
10.h.iii	Team did not roll vehicle to calibrate on the track.	Y / N	Y / N
10.h.iv.	Team released vehicle without pushing it during release.	Y / N	Y / N
10.h.v.	Team did not chase vehicle down the track.	Y / N	Y / N
10.b.v.	Vehicle successfully transported golf ball for entire run.	Y / N	Y / N

Straight-line Distance (distance in cm from fixed point to Target point to nearest 0.10 cm) Circle best run – low score is best.		
Tier and Penalties: Tier 1: Run with no violations – all boxes above are a “Yes” for at least 1 run Tier 2: Run with any competition violations – both runs or impound have a “No” DQ: Students continued to work after 30 min time was called or received outside assistance	1 2 DQ	
Final Rank		

Low Score wins.

**The Final Score of a vehicle with one Failed Run must be the other Run Score.
 Circle lower of 2 Run Scores above. Ties broken by lowest combined run score.**