## 2019 Mousetrap Vehicle Score Sheet (Subject to Revisions)



	I Name:I eam (Circle ( nt Names:	Onej: V JV1	JV2	JV3
Juac				
2a	A single vehicle, spare parts, and any additional parts needed are impounded prior to competition (IV)		Y	/ N
2a/4b	Practice log impounded properly (500)		Y	/ N
4a	Practice log completed [10+ runs with vehicle distance, cup distance, run time, and one vehicle pa	rameter] (250)	Y	/ N
3a	All propulsive energy comes from (1) or (2) snap mousetraps of base 6.0cm x 12.0cm or smaller. No hammer extend more than 1.0cm beyond the base. Mousetrap retains all original and structural integ welding, bending, or cutting]. Items added [through soldering, taping, tying, gluing, and clamping]. Items added [through soldering, taping, tying, gluing, and clamping]. Items added [through soldering, taping, tying, gluing, and clamping]. Items added [through soldering, taping, tying, gluing, and clamping]. Items added [through soldering, taping, tying, gluing, and clamping]. Items added [through soldering, taping, tying, gluing, and clamping].	rity [no	Y	/ N
3d	No electrical/electronic components or devices used (III)		Y	/ N
3f	Wheels/treads fit entirely in a 40 cm x 40 cm space of any height. Axles, drive arms, etc may extend	beyond (III)	Y	/ N
3e	Participants can answer questions regarding design, construction, and operation of the device (III)		Y	/ N
		Run 1	Rı	ın 2
2c	Participants must wear eye protection. Any without will not be allowed compete	Y / FR	Y	/ FR
3b	Any additional sources of kinetic energy are at lowest state in ready-to-run configuration (III)	Y / N	Y	/ N
3c	Vehicle was not remotely controlled or tethered and stopped and reversed automatically (III)	Y / N	Y	/ N
3e	<ul> <li>An approx. ¼" round wooden dowel is attached to vehicle approx. perpendicular to floor</li> <li>Bottom of dowel is ≤1.0cm from track surface and easily accessible by ES (III)</li> </ul>	Y / N	Y	/ N
3g	Only non-electric sighting/aiming devices used. Devices removed from track before run (III)	Y / N	Y	/ N
3h	All parts of vehicle move as a whole. Only parts contacting the floor were the wheels/treads and are part already in contact with the floor in ready-to-run. No piece fell from vehicle during run. (III)	ny <b>Y</b> / <b>N</b>	Y	/ <b>N</b>
5a	Participants did not leave the area or receive outside assistance, materials, or communication (II)	Y / N	Y	/ N
5c/5d	Cup was placed upside down covering the Start Point. Vehicle dowel is touching the cup and the vehicle remained at the starting position without being touched. (II)	Y / N	Y	/ N
5f	Teams did not roll vehicle on the floor of the track. (II)	Y / N	Y	/ N
5g	Substances used did not damage or leave residue on the floor, track, or event area. (II)	Y / N	Y	/ N
5h	Vehicle is started with a trigger and actuated using any part of an ES supplied pencil in a motion approx. perpendicular to the floor. Team did not touch or hold vehicle while actuating (II)	Y / N	Y	/ N
5i	Failed Runs occur if time / distance can not be measured  If vehicle starts before ES is ready  If participants pick up vehicle before it is measured  If the vehicle moves backwards at the start	FR		FR
tops if	me (in seconds to nearest .01, between 0.50 m Line and the 8.50 m Line, or whenever vehicle 8.5 m is not reached) Use 3 timers / use middle time			
	stance: (point to point distance in cm to nearest .1cm from the Cup Target Point to closest he cup. If cup covers Cup Target Point, distance = 0.0cm)			
/ehicle	Distance (point to point distance in cm to nearest .1cm from front bottom edge of dowel to Target Point)			
nitial t	hat recorded data was verified with team			

## 2019 Mousetrap Vehicle Score Sheet (Subject to Revisions)

Tier and Penalties:	
Practice log: +250 if incomplete, +500 if not impounded	Ţ
Tier I: Run with no violations	11
Tier II: Run with any competition violations (noted by rule 5)	11
Tier III: Run with any construction violations (noted by rule 3)	III
Tier IV: Vehicle not impounded properly	IV
<b>Run Score</b> = (Vehicle Distance) + (Cup Distance x 2) + (Run Time) + Penalties	

Low Final Score wins. The Final Score must be the lower of the 2 run scores. The Final Score of a vehicle with one Failed Run must be the other Run Score. Circle lower of 2 Run Scores above.