2019 Battery Buggy Score Sheet (Subject to Revisions)



School Name: Team_____ (Circle One): V JV1 JV2 JV3 Student Names: 2a Vehicle, batteries, and additional / spare parts were properly impounded (IV) Y / N 4b Practice log impounded (500) Y / N Practice log completed [at least 10 runs with vehicle distance, run time, wheel setting, bonus can distance] (250) 4a Y / N 3b Maximum of (8) AA 1.2-1.5V commercial batteries are used and are easily accessible for inspection (III) Ν Y / 3c Vehicle constructed so that when it comes to a complete stop batteries are no longer powering the motor (III) Y / N 3d Batteries do not contain lithium or lead acid. If used, teams will not be allowed to run (III) Y / FR 3e All energy for propulsion is electric and comes from the batteries. If electric, non-propulsive functions powered Y / N by same batteries (III) 3f Electrical components are limited to batteries, wires, motors, switches, resistors, potentiometers, and mechanical Y / N relays. No electric or electronic tools were used (exception: stand alone calculator) (III) Wheel/treads entirely fit within a 30cm wide x 60cm long space (axles and other parts may extend beyond) (III) Y / N 3g 3j Participants can answer questions regarding design, construction, and operation of the device (III) Y Ν Run 1 Run 2 NCSO Participants must wear eye protection. Any without will not be allowed compete Y / FR Y / FR 3h Y / N Y / N An approx. ¹/₄" round wooden dowel is attached at the front end of the vehicle Dowel is the leading part of vehicle. • • Dowel is approx. perpendicular to floor, extends ≥ 20.0 cm above floor and ≤ 1.0 cm within track surface. Dowel attachment device extends no more than 0.5cm beyond front of dowel • 3i Only wheels / treads contact the floor at any time during the run (III) Y / N Y / N 5b Participants did not receive outside assistance/materials/communication (II) Y / N Y / N 5c ii Team did not verify distance by rolling on or adjacent to track (II) Y / N Y / N Team did not apply wet/tacky substances to track, wheels, or treads (II) Y / N Y / N 5c iii 5c iv Vehicle's measurement point starts on the Start Point and sighting devices are removed from track Y / N Y / N Entire vehicle, including batteries, moved forward together (II) 5c vi Y / N Y / N 5c v Vehicle started via a switch by using any part of the ES supplied pencil in a motion approx. Y / N Y / N perpendicular to the floor. Vehicle was not held while starting. 5e Dowel of Vehicle passed the .50m line and the 8.50m line (II) Y / N Y / N 5f Failed Runs occur if time / distance can not be measured FR FR If vehicle starts before ES is ready • If the vehicle's measurement point does not cross the .50 m line; • • If the vehicle moves backwards at the start Vehicle does not stop using it's own braking system •

Bonus Can Distance: Distance to .1cm between the cans	cm		cm			
	Y	/	Ν	Y	/	Ν
Run Time (in seconds to nearest .01, between 0.50 m Line and the 8.50 m Line, or whenever vehicle						
stops if 8.5 m is not reached) Use 3 timers / use middle time						
Distance (distance in cm from dowel to Target point to nearest .10 cm)						
Initial that recorded data was verified with team						

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Tier and Penalties:	
Practice log: +250 if incomplete, +500 if not impounded	Ţ
Tier I: Run with no violations	П
Tier II: Run with any competition violations (noted by rule 5)	
Tier III: Run with any construction violations (noted by rule 3)	111
Tier IV: Vehicle not impounded properly	IV
Run Score = (Run Time) + (Distance x 2) – (Bonus (.5 x (110-Can Distance))) + 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.