

- ii. Use their own measuring devices to verify the track dimensions. They may not verify the distance by rolling the vehicle on the track surface (floor) between the start and finish line at any time prior to or during the competition.
 - iii. Place the tip of the vehicle's pointer even with the Starting Line and align the vehicle. A target may be placed at the finish line to aid in aligning the vehicle, but must be removed before starting each run.
 - iv. Contestants must start the vehicle using a pencil, pen, dowel or similar device (which is not part of and does not travel with the vehicle) to actuate some sort of switch. They may not touch the vehicle to start it, hold it in place while actuating the switch or "push" the vehicle to get it started. The entire vehicle, including batteries, must move forward together. It is considered a run if the vehicle moves after the switch is actuated. Contestants may not follow their vehicle down the track. They must wait until called by the Event Supervisor to observe their finish distance and retrieve their vehicle.
 - c. The Measured Time will start when the vehicle begins forward motion and stops when the tip of the pointer crosses the finish line or the first time forward motion of the vehicle stops, whichever occurs first.
6. **SCORING:** Each Run Score is the sum of 3 Components: Time Score, Distance Score, and Center Line Score. Low Score wins.
- a. The Distance Score shall be the ~~straight line~~ distance from the tip of the pointer on the vehicle measured **perpendicular** to the finish line in millimeters.
 - b. The Time Score is ~~30~~ 20x the time (in seconds measured to .00 sec.) for the vehicle to move from the starting line to come to a complete stop for the first time, ~~or until it crosses the finish line.~~ It is recommended that three timers be used with the middle time being the official time.
 - c. A Center Line Score of -20 points will be awarded if the center tape remains completely within the vehicle's track while the vehicle travels between the start line and the finish line. This bonus will be awarded even if the pointer or the entire vehicle crosses the finish line.
 - d. The Final Score for the event will be the ~~higher~~ lower of the Run Scores or the better ranking of the Run Scores. Violation of any rule requirement will result in the team being ranked by their Final Score in a second tier below all teams without rule violations.
 - e. Ties will be broken by the ~~better~~ lower Time Score of the scored run and if a tie still exists, in favor of the ~~better~~ lower Distance Score of the scored run.

Scoring Example: The vehicle traveled the distance in 8.53 seconds and came to rest 10.4 cm from the finish line. The tape remained within the vehicle's track during the run.

Time Score	255.90 170.6 pts	$8.53 \times 30 = 255.90$
Distance Score	104.00 pts.	$10.4 \text{ cm} \times 10 \text{ mm/cm} = 104.00$
Center Line Score	-20.0 pts.	
Run Score	339.90 254.6 pts.	$255.90 - 170.6 + 104.00 + (-20) = 254.6$

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